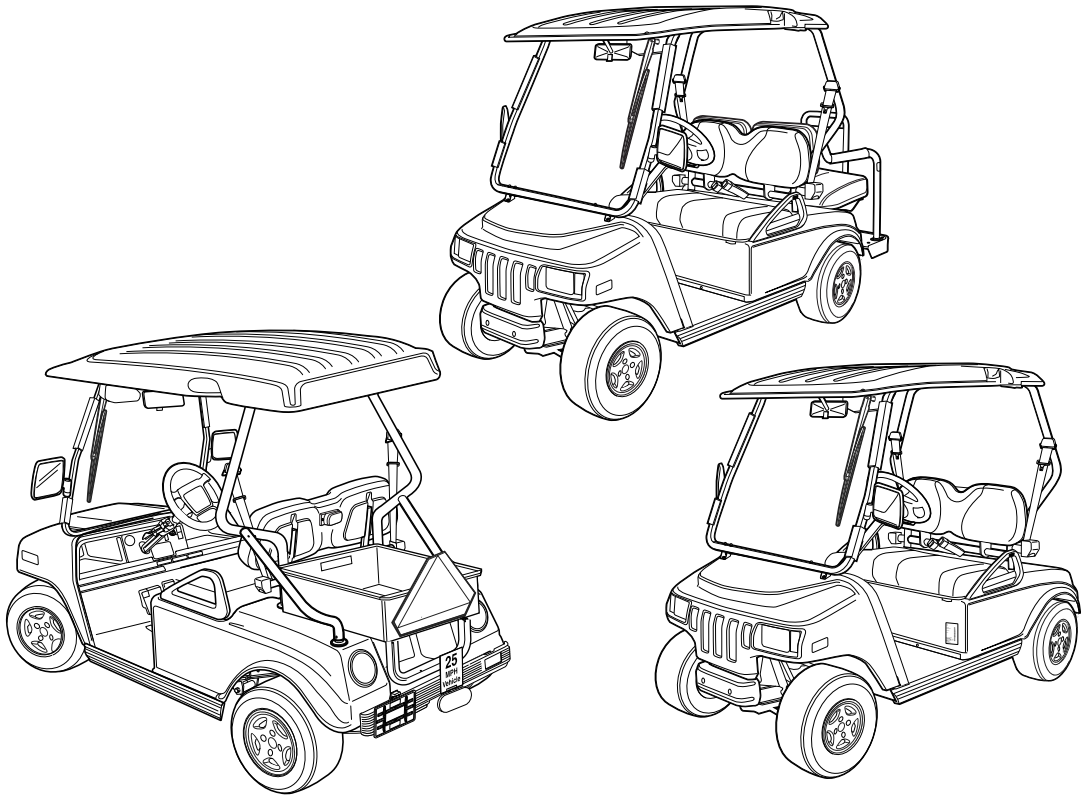
Club Car®

Villager LSV Owner's Manual

Zero Emission, Electric Low Speed Vehicle

[Refer to back cover for applicable build code range]



Ingersoll Rand
Industrial Technologies

NOTICE

This manual is valid for vehicles manufactured in the build code range provided on the back cover of this manual. If the vehicle build code is different from that shown on the back cover of this manual, please contact your nearest dealer or go to www.clubcar.com to retrieve the proper owner's manual for the vehicle. See also Model Identification in this manual.

Warranty information appears at the end of this manual. No other warranties, express or implied, are contained herein. If you are the original purchaser of this vehicle, please contact Club Car, LLC. or your authorized dealer if you did not receive a copy of the completed vehicle warranty registration form.

Club Car is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

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The information contained in this document is subject to change without notice.

Club Car reserves the right to make design changes to vehicles without obligation to make these changes on units previously sold.

The vehicle referenced herein has been designed and manufactured to comply with the United States National Highway Transportation and Safety Administration's Low Speed Vehicle rules and regulations in effect at the time of manufacture. The operation of this vehicle is also subject to all applicable state and local laws, the effect of which may be to further limit or prohibit the lawful operation of this vehicle in certain environments.

This vehicle conforms to FMVSS 500 for low-speed vehicles as it existed on the date the vehicle was shipped from Club Car's manufacturing facility.

If in English, this manual is the Original Instructions provided by the manufacturer. If in any language other than English, this manual is a translation of the Original Instructions.

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This manual effective July 1, 2010

FOREWORD

Thank you for choosing Club Car, the name most widely recognized as the industry leader in vehicle efficiency and long-lasting value. You have chosen the finest utility vehicle on the market. Please protect your investment and ensure that your Club Car vehicle(s) provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your safety and comfort are important to us, so we urge you to read and follow the step-by-step operating instructions and safety procedures in this manual. These instructions must be followed in order to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

Club Car products are backed by a customer support system designed to offer you fast, courteous service. In the event your Club Car vehicle needs repairs or service, please contact your local authorized Club Car dealer or distributor; he will be able to provide technical advice, perform warranty work, and sell parts and service manuals.

For the name and address of the authorized Club Car dealer or distributor nearest you, logon to our web site at www.clubcar.com or call 1-800-ClubCar (258-2227). If you would prefer to write to us, direct your letter to: Club Car, Attention: Marketing Services, P.O. Box 204658, Augusta, Georgia 30917-4658 USA.

We hope you will consider this owner's manual a permanent part of your Club Car vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains. To obtain additional copies of this manual, reference website, telephone and address information above.

REGULAR MAINTENANCE ITEMS
Battery Terminal Protector Spray
CC P/N 1014305
Dry Moly Lube
CC P/N 1012151

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PRACTICE SAFETY

Safety signs like you see above may at first seem shocking, but their impact is mild compared with the reality of severe personal injury.

Your safety and satisfaction are of the utmost importance to us. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING, and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle.

Take time to understand the language of safety. It is a language that can save your life.

⚠ WARNING

- **The LSV electric vehicle is equipped to operate at a top speed of 25 mph (40 km/h) and is intended for use as a low-speed vehicle.**
- **This vehicle offers much less crash protection than a regular car, van, or truck. This results in a higher risk of injury or death in collisions, even at low speeds. The higher the speed of traffic around you, the higher the risk of injury. To reduce risks:**
  - **Do not operate this vehicle in a manner that impedes traffic.**
  - **Whenever possible, stay on roads and lanes limited to low-speed vehicles.**
  - **Wear your seat belt at all times.**
  - **Avoid operating at night because this vehicle may be hard for others to see.**
  - **Never operate under the influence of alcohol or drugs.**
- **To help avoid rolling over, SLOW DOWN BEFORE MAKING SHARP TURNS.**
- **Only operate vehicle where permitted by law.**
- **Before using vehicle, read operating instructions.**
- **FASTEN SEAT BELT and remain seated while moving.**
- **Children requiring a child safety seat must not ride on the vehicle.**
- **Comply with state and local laws pertaining to child safety.**
- **Do not start vehicle until all occupants are seated.**
- **Two (2) persons per bench seat maximum.**
- **Operate from driver side only.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Keep entire body inside vehicle and hold on to seat handle or handrail at all times.**
- **Drive slowly in turns and straight up and down slopes.**
- **Do not leave children unattended on vehicle at any time.**
- **Never stand in front of or behind vehicle.**
- **Do not drive the vehicle under tree limbs, bridges, tunnels, or other objects that are less than 80 inches from the ground.**
- **This vehicle is not intended to be used where risk of falling objects exist. If your vehicle will be used in such an environment, contact your local dealer**

PROPOSITION 65 – STATE OF CALIFORNIA

⚠ WARNING

- **This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm.**

REPORTING SAFETY DEFECTS

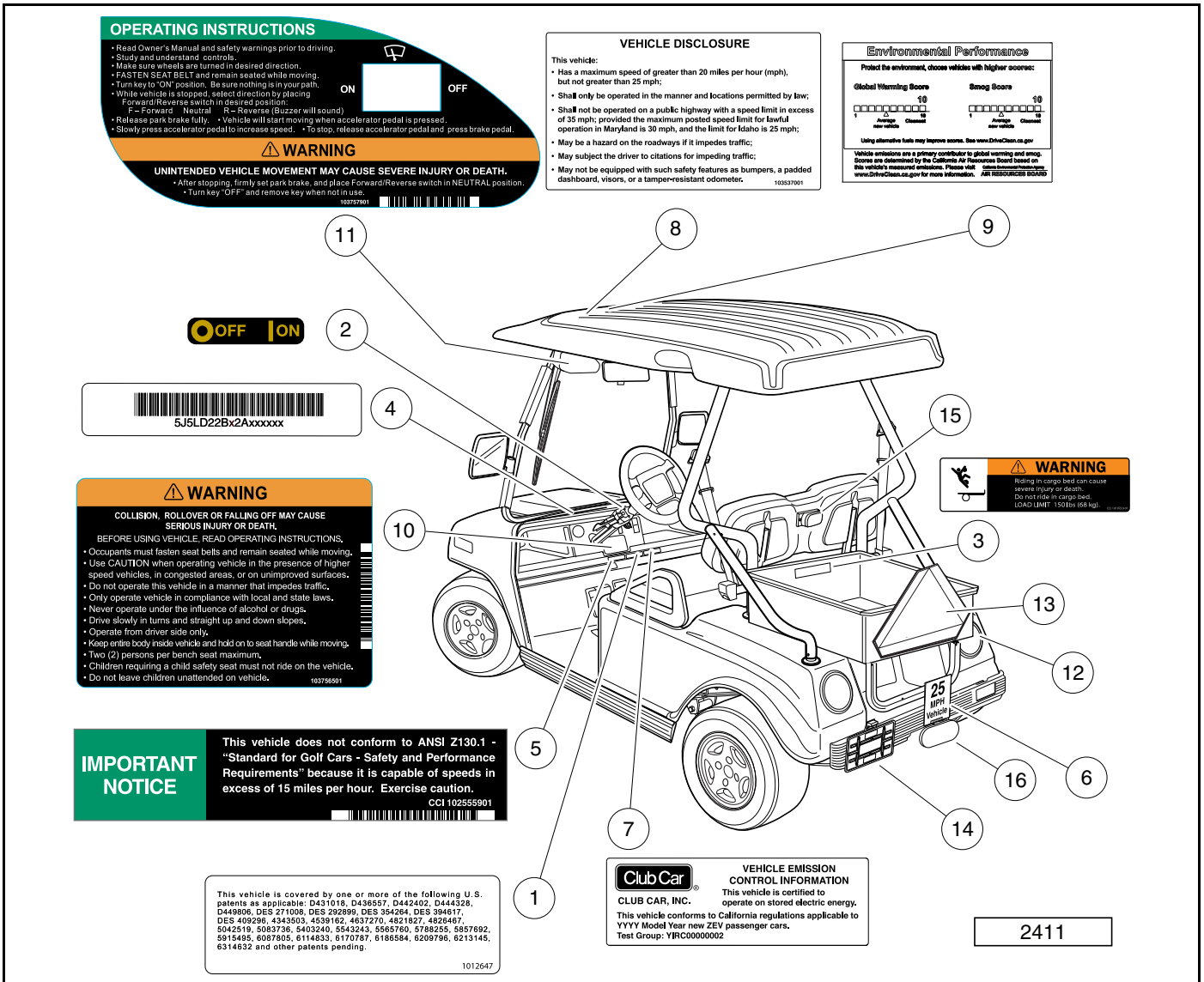
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Club Car LLC. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Club Car LLC.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1–888–327–4236 (TTY: 1–800–424–9153); go to http:// www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

SAFETY DECAL AND FEATURE IDENTIFICATION

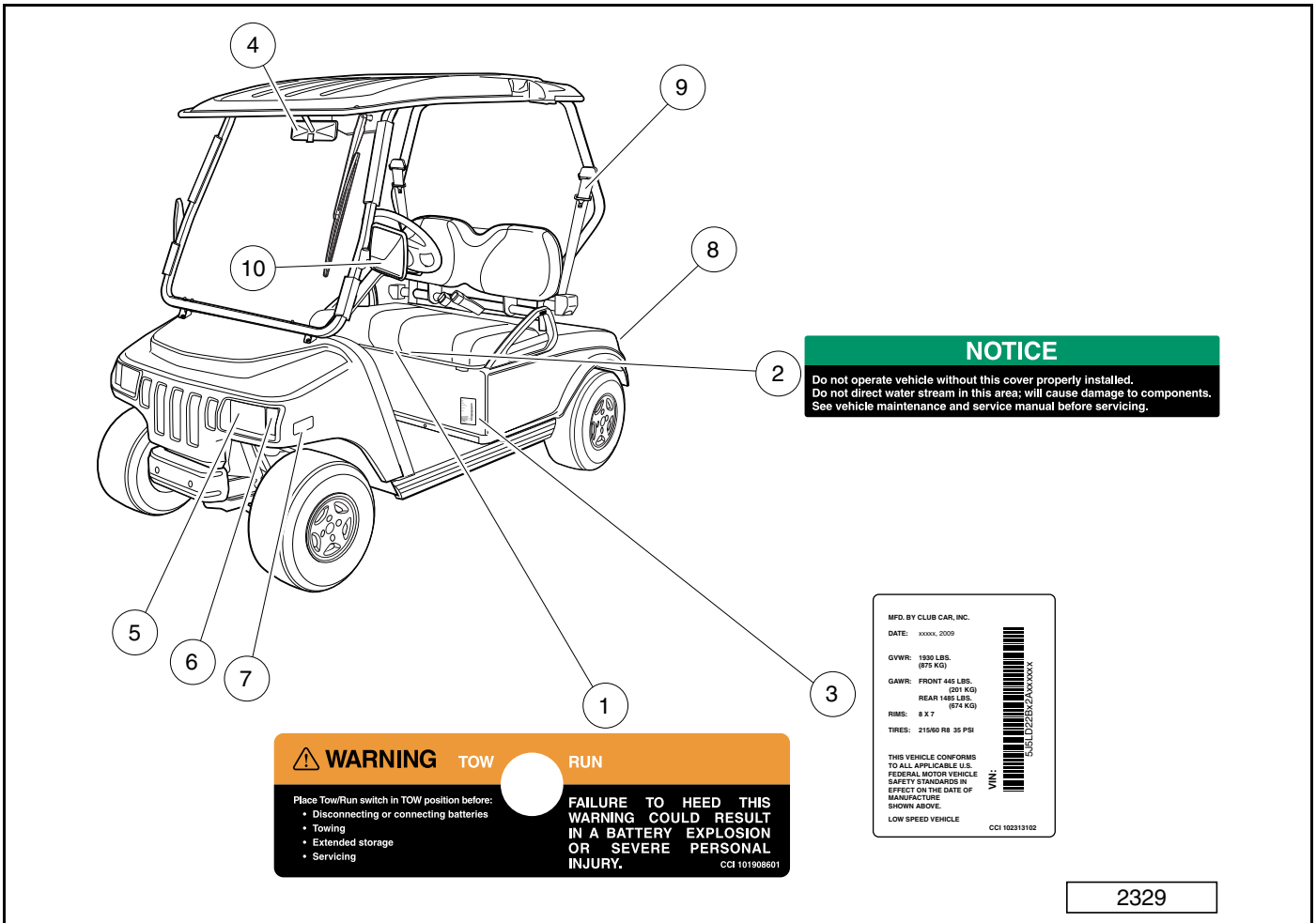
The following pages contain safety decal and feature identification information. For detailed information on specific features, read the appropriate section in this manual.

VILLAGER 2 LSV


OPERATING INSTRUCTIONS
• Read Owner's Manual and safety warnings prior to driving.
• Study and understand controls.
• Make sure wheels are turned in desired direction.
• FASTEN SEAT BELT and remain seated while moving.
• Turn key to "ON" position. Be sure nothing is in your path.
• While vehicle is stopped, select direction by placing Forward/Reverse switch in desired position:
F – Forward Neutral R – Reverse (Buzzer will sound)
• Release park brake fully. • Vehicle will start moving when accelerator pedal is pressed.
• Slowly press accelerator pedal to increase speed. • To stop, release accelerator pedal and press brake pedal.
ON
OFF
WARNING
UNINTENDED VEHICLE MOVEMENT MAY CAUSE SEVERE INJURY OR DEATH.
• After stopping, firmly set park brake, and place Forward/Reverse switch in NEUTRAL position.
• Turn key "OFF" and remove key when not in use.
103757901
VEHICLE DISCLOSURE
This vehicle:
• Has a maximum speed of greater than 20 miles per hour (mph), but not greater than 25 mph;
• Shall only be operated in the manner and locations permitted by law;
• Shall not be operated on a public highway with a speed limit in excess of 35 mph; provided the maximum posted speed limit for lawful operation in Maryland is 30 mph, and the limit for Idaho is 25 mph;
• May be a hazard on the roadways if it impedes traffic;
• May subject the driver to citations for impeding traffic;
• May not be equipped with such safety features as bumpers, a padded dashboard, visors, or a tamper-resistant odometer.
103537001
Environmental Performance
Protect the environment, choose vehicles with higher scores:
Global Warming Score
Smog Score
10
1
Average new vehicle
Cleanest
Using alternative fuels may improve scores. See www.DriveClean.ca.gov
Vehicle emissions are a primary contributor to global warming and smog. Scores are determined by the California Air Resources Board based on this vehicle's measured emissions. Please visit www.DriveClean.ca.gov for more information.
AIR RESOURCES BOARD
11
8
9
OFF
ON
2
5J5LD22Bx2Axxxxxx
4
15
WARNING
Riding in cargo bed can cause severe injury or death.
Do not ride in cargo bed.
LOAD LIMIT 150lbs (68 kg).
WARNING
COLLISION, ROLLOVER OR FALLING OFF MAY CAUSE SERIOUS INJURY OR DEATH.
BEFORE USING VEHICLE, READ OPERATING INSTRUCTIONS.
• Occupants must fasten seat belts and remain seated while moving.
• Use CAUTION when operating vehicle in the presence of higher speed vehicles, in congested areas, or on unimproved surfaces.
• Do not operate this vehicle in a manner that impedes traffic.
• Only operate vehicle in compliance with local and state laws.
• Never operate under the influence of alcohol or drugs.
• Drive slowly in turns and straight up and down slopes.
• Operate from driver side only.
• Keep entire body inside vehicle and hold on to seat handle while moving.
• Two (2) persons per bench seat maximum.
• Children requiring a child safety seat must not ride on the vehicle.
• Do not leave children unattended on vehicle.
103756501
10
3
13
12
25 MPH Vehicle
IMPORTANT NOTICE
This vehicle does not conform to ANSI Z130.1 - "Standard for Golf Cars - Safety and Performance Requirements" because it is capable of speeds in excess of 15 miles per hour. Exercise caution.
CCI 102555901
5
16
6
7
14
1
This vehicle is covered by one or more of the following U.S. patents as applicable: D431018, D436557, D442402, D444328, D449806, DES 271008, DES 292899, DES 354264, DES 394617, DES 409296, 4343503, 4539162, 4637270, 4821827, 4826467, 5042519, 5083736, 5403240, 5543243, 5565760, 5788255, 5857692, 5915495, 6087805, 6114833, 6170787, 6186584, 6209796, 6213145, 6314632 and other patents pending.
1012647
Club Car
CLUB CAR, INC.
VEHICLE EMISSION CONTROL INFORMATION
This vehicle is certified to operate on stored electric energy.
This vehicle conforms to California regulations applicable to YYYY Model Year new ZEV passenger cars.
Test Group: YIRC00000002
2411

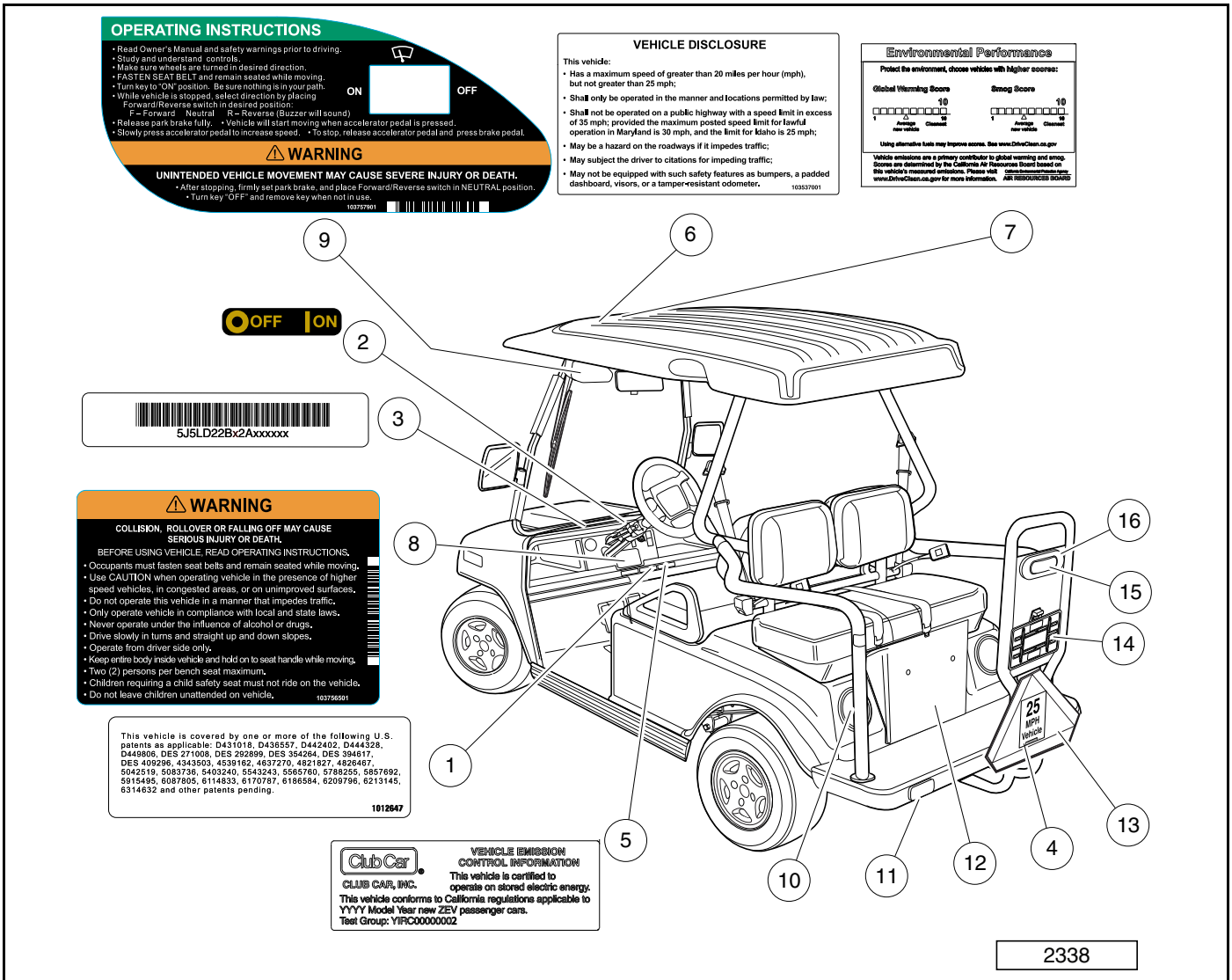
1	1012647	Decal, Patent	10	103756501	Decal, Collision, Rollover or Falling Off Warning
2	101825101	Decal,On/Off	11	103757901	Decal, Operating Instructions (on wiper motor cover)
3	101972001	Decal, Do Not Ride in Bed (Only with Cargo Bed Option)	12		Tail/Brake/Turn Light
4	102322704	Decal, VIN VILL 2 LSV	13		Slow Moving Vehicle Warning Triangle
5	102555901	Decal, Private Speed Notice (on vehicles with the golf bag rack attachment)	14		License Plate Holder
6	103501401	Decal, 25 MPH Vehicle (N.J. Only)	15		3rd Brake Light
7	103515002	Decal, Vehicle Emissions Control Information	16		Reverse Light
8	103537001	Decal, Vehicle Disclosure (under canopy on driver side)			
9	103593401	Decal, Environmental Performance			

VILLAGER 2 LSV



1	101908601	Decal, Tow/Run Switch Warning (on Tow/Run switch plate, under seat)	7		Decal, Safety Reflector, Front
2	101931501	Decal, Component Cover Caution (on electrical component cover)	8		Decal, Safety Reflector, Rear
3	102313104	Decal, Vehicle Identification Number (VIN)	9		3 Point Seat Belt
4		Interior Rear View Mirror	10		Rear View Mirror
5		Headlights			
6		Turn Signal Light			

VILLAGER 2+2 LSV


OPERATING INSTRUCTIONS
• Read Owner's Manual and safety warnings prior to driving.
• Study and understand controls.
• Make sure wheels are turned in desired direction.
• FASTEN SEAT BELT and remain seated while moving.
• Turn key to "ON" position. Be sure nothing is in your path.
• While vehicle is stopped, select direction by placing Forward/Reverse switch in desired position:
F – Forward Neutral R – Reverse (Buzzer will sound)
• Release park brake fully. • Vehicle will start moving when accelerator pedal is pressed.
• Slowly press accelerator pedal to increase speed. • To stop, release accelerator pedal and press brake pedal.
ON
OFF
WARNING
UNINTENDED VEHICLE MOVEMENT MAY CAUSE SEVERE INJURY OR DEATH.
• After stopping, firmly set park brake, and place Forward/Reverse switch in NEUTRAL position.
• Turn key "OFF" and remove key when not in use.
103757901
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This vehicle:
• Has a maximum speed of greater than 20 miles per hour (mph), but not greater than 25 mph;
• Shall only be operated in the manner and locations permitted by law;
• Shall not be operated on a public highway with a speed limit in excess of 35 mph; provided the maximum posted speed limit for lawful operation in Maryland is 30 mph, and the limit for Idaho is 25 mph;
• May be a hazard on the roadways if it impedes traffic;
• May subject the driver to citations for impeding traffic;
• May not be equipped with such safety features as bumpers, a padded dashboard, visors, or a tamper-resistant odometer.
103537001
Environmental Performance
Protect the environment, choose vehicles with higher scores:
Global Warming Score
Smog Score
10
1
Average new vehicle
Cleanest
Using alternative fuels may improve scores. See www.DriveClean.ca.gov
Vehicle emissions are a primary contributor to global warming and smog. Scores are determined by the California Air Resources Board based on this vehicle's measured emissions. Please visit www.DriveClean.ca.gov for more information.
AIR RESOURCES BOARD
OFF ON
5J5LD22Bx2Axxxxxx
WARNING
COLLISION, ROLLOVER OR FALLING OFF MAY CAUSE SERIOUS INJURY OR DEATH.
BEFORE USING VEHICLE, READ OPERATING INSTRUCTIONS.
• Occupants must fasten seat belts and remain seated while moving.
• Use CAUTION when operating vehicle in the presence of higher speed vehicles, in congested areas, or on unimproved surfaces.
• Do not operate this vehicle in a manner that impedes traffic.
• Only operate vehicle in compliance with local and state laws.
• Never operate under the influence of alcohol or drugs.
• Drive slowly in turns and straight up and down slopes.
• Operate from driver side only.
• Keep entire body inside vehicle and hold on to seat handle while moving.
• Two (2) persons per bench seat maximum.
• Children requiring a child safety seat must not ride on the vehicle.
• Do not leave children unattended on vehicle.
103756501
This vehicle is covered by one or more of the following U.S. patents as applicable: D431018, D436557, D442402, D444328, D449806, DES 271008, DES 292899, DES 354264, DES 394617, DES 409296, 4343503, 4539162, 4637270, 4821827, 4826467, 5042519, 5083736, 5403240, 5543243, 5565760, 5788255, 5857692, 5915495, 6087805, 6114833, 6170787, 6186584, 6209796, 6213145, 6314632 and other patents pending.
1012647
Club Car
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VEHICLE EMISSION CONTROL INFORMATION
This vehicle is certified to operate on stored electric energy.
This vehicle conforms to California regulations applicable to YYYY Model Year new ZEV passenger cars.
Test Group: YIRC00000002
25 MPH Vehicle
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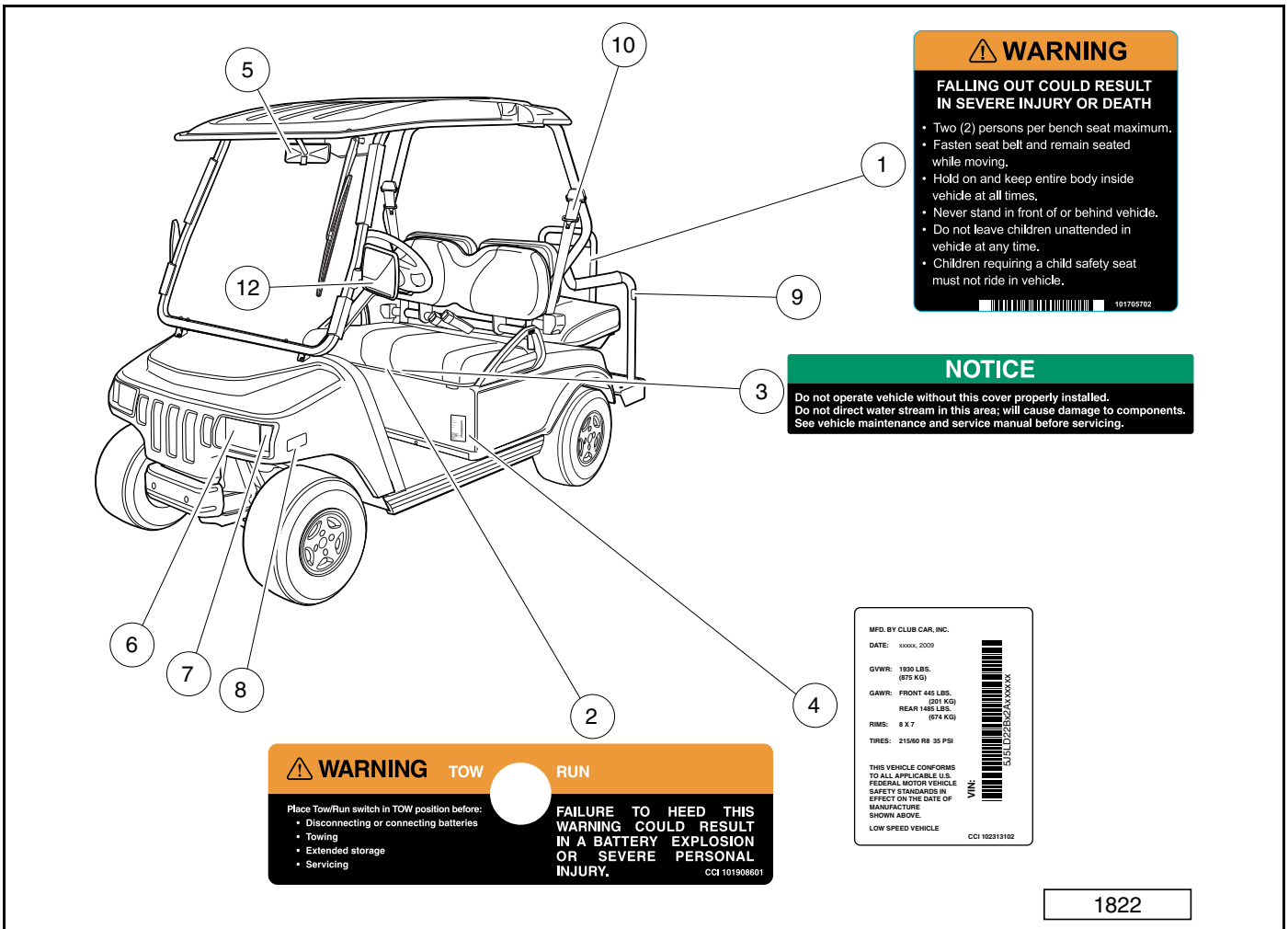
2338

1	1012647	Decal, Patent	9	103757901	Decal, Operating Instructions (on wiper motor cover)
2	101825101	Decal, On/Off	10		Tail/Brake/Turn Light
3	102322702	Decal, VIN VILL 2+2 LSV	11		Taillight
4	103501401	Decal, 25 MPH Vehicle (N.J. Only)	12		On Board Battery Charger (behind panel)
5	103515002	Decal, Vehicle Emissions Control Information	13		Slow Moving Vehicle Warning Triangle
6	103537001	Decal, Vehicle Disclosure (under canopy on driver side)	14		License Plate Holder
7	103593401	Decal, Environmental Performance	15		3rd Brake Light
8	103756501	Decal, Collision, Rollover or Falling Off Warning	16		Reverse Light

VILLAGER 2+2 LSV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2
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WARNING
FALLING OUT COULD RESULT IN SEVERE INJURY OR DEATH
• Two (2) persons per bench seat maximum.
• Fasten seat belt and remain seated while moving.
• Hold on and keep entire body inside vehicle at all times.
• Never stand in front of or behind vehicle.
• Do not leave children unattended in vehicle at any time.
• Children requiring a child safety seat must not ride in vehicle.
101705702
NOTICE
Do not operate vehicle without this cover properly installed.
Do not direct water stream in this area; will cause damage to components.
See vehicle maintenance and service manual before servicing.
MFD. BY CLUB CAR, INC.
DATE: xxxxx, 2009
GVWR: 1930 LBS. (875 KG)
GAWR: FRONT 445 LBS. (201 KG)
REAR 1485 LBS. (674 KG)
RIMS: 8 X 7
TIRES: 215/60 R8 35 PSI
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
LOW SPEED VEHICLE
VIN:
5J5LD22242AXXXXX
CCI 102313102
WARNING
TOW
RUN
Place Tow/Run switch in TOW position before:
• Disconnecting or connecting batteries
• Towing
• Extended storage
• Servicing
FAILURE TO HEED THIS WARNING COULD RESULT IN A BATTERY EXPLOSION OR SEVERE PERSONAL INJURY.
CCI 101908601
1822

1	101705702	Decal, Falling Off Warning (on rear facing seat hand rail)	7		Turn Signal Light
2	101908601	Decal, Tow/Run Switch Warning (on Tow/Run switch plate, under seat)	8		Decal, Safety Reflector, Front
3	101931501	Decal, Component Cover Caution (on electrical component cover)	9		Decal, Safety Reflector, Rear
4	102313102	Decal, Vehicle Identification Number (VIN)	10		3 Point Seat Belt
5		Interior Rear View Mirror	11		Rear View Mirror
6		Headlights			

SAFETY DETAILS

⚠ WARNING

- **This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.**

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

If any of the operation or safety decals on the vehicle become damaged, have been removed, or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. To obtain replacement decals or for questions regarding placement, please contact your distributor/dealer.

⚠ DANGER

- **A DANGER indicates an immediate hazard that will result in severe personal injury or death.**

⚠ WARNING

- **A WARNING indicates an immediate hazard that could result in severe personal injury or death.**

⚠ CAUTION

- **A CAUTION with the safety alert symbol indicates a hazard or unsafe practice that could result in minor personal injury.**

CAUTION

- **A CAUTION without the safety alert symbol indicates a potentially hazardous situation that could result in property damage.**

GENERAL WARNINGS

The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. **See Safety Decal and Feature Identification on page 6.** Other specific safety statements appear throughout this manual and on the vehicle.

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **The vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving a Club Car vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.**

⚠ WARNING

- **Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle and battery charger.**
- **The driver must possess a valid, unrestricted driver's license issued by the State in which the vehicle will be operated.**
- **The driver and passenger must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking or collision.**
- **Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a third person to sit in the middle of the seat or let a passenger hold a child in his or her lap while the vehicle is moving.**
- **Do not leave children unattended on vehicle.**
- **The vehicle is not designed to meet child seat compatibility requirements. Children requiring a child safety seat must not ride on the vehicle. Comply with state and local laws pertaining to child safety.**
- **Prior to leaving the vehicle unattended or servicing the vehicle, set the park brake, place the Forward/Reverse handle or switch in the NEUTRAL position, turn the key switch to the OFF position, and remove the key. Chock the wheels when servicing the vehicle.**
- **Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.**
- **Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**
- **Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read.**
- **For vehicles with cargo beds, remove all cargo before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.**
- **Only trained technicians should service or repair the vehicle or battery charger. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions and precautions must be used when performing maintenance, service, or accessory installation.**
- **Place Tow/Run switch in the TOW position before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury.**
- **To avoid unintentionally starting an electric vehicle, disconnect the batteries and discharge the controller. See Disconnecting the Batteries – Electric Vehicles on page 13.**
- **Ensure battery connections are clean and properly tightened. See Battery Care – Water Quality on page 34.**
- **Use only 4-gauge (AWG) wires with low-resistance terminals to replace battery wires on the vehicle.**
- **Wear safety glasses or approved eye protection when servicing the vehicle or battery charger. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle or battery charger.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**

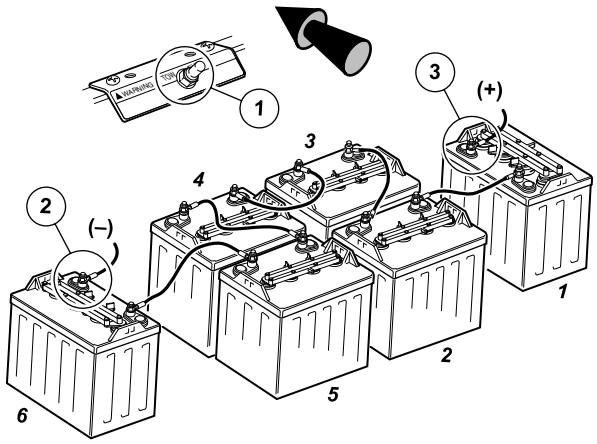
DISABLING THE VEHICLE

1. Set the park brake.
2. Turn the key switch OFF and remove the key.

3. Place the Forward/Reverse control in the NEUTRAL position.
4. In addition, chock the wheels if servicing or repairing the vehicle.

DISCONNECTING THE BATTERIES – ELECTRIC VEHICLES

1. Disable the vehicle. **See Disabling the Vehicle on page 12.**
2. Place Tow/Run switch in the TOW position before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury.
3. Disconnect the batteries, negative (–) cable first, as shown **(Figure 1)**.
4. After disconnecting the batteries, wait 90 seconds for the controller capacitors to discharge.



(Viewed from driver side of vehicle)

1. Place TOW/RUN Switch in TOW before disconnecting or connecting battery cables.
2. Remove negative battery cable.
3. Remove positive battery cable.

Connect battery cables in reverse order.

1436.eps

Figure 1 Battery Cable Removal – 6x8-Volt Battery Configuration

CONNECTING THE BATTERIES – ELECTRIC VEHICLES

1. Ensure the Tow/Run switch is in the TOW position.
2. Connect the battery cables, positive (+) cable first.
3. Tighten battery terminals to 110 in-lb (12.4 N·m).
4. Coat terminals with Battery Terminal Protector Spray (CC P/N 1014305) to minimize corrosion.

RECYCLING LEAD-ACID BATTERIES

⚠ WARNING

- **Lead-acid batteries contain lead (Pb), other metals, acids and other compounds. If improperly handled, they can contaminate both water and soil, causing environmental damage and personal injury.**

Lead-acid batteries are identified by the symbol shown below and should be properly recycled **(Figure 2)**. They cannot be disposed as municipal waste and must be collected separately. Responsibility for environmental protection must be shared, not only by the manufacturers of the batteries, but by people who use the batteries as well. Please contact your nearest Club Car dealer or distributor for information on how to properly recycle your batteries.

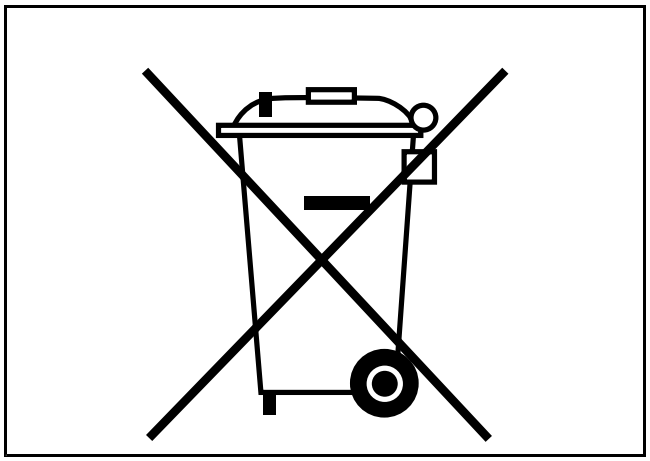


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Figure 2 Dispose of Lead-acid Batteries Properly

INTERNATIONAL SAFETY SYMBOLS ON BATTERIES

Anyone using, repairing, or servicing the vehicle must understand and heed the safety symbols on the vehicle battery or batteries.

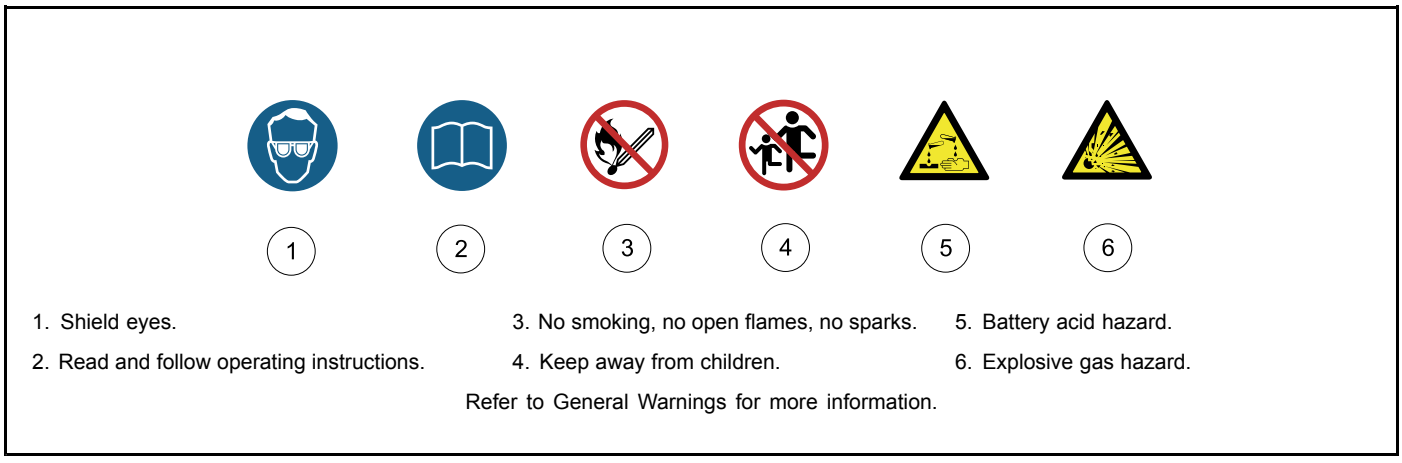

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Figure 3 International Safety Symbols on Batteries

GENERAL INFORMATION

This manual features the Villager Low Speed Vehicle. This vehicle utilizes the IQ System (48-volt) electric system.

Throughout this manual, important features unique to each model are highlighted. We urge the owner/operator to read and understand this manual, and to pay special attention to the features specific to their vehicle(s).

MODEL IDENTIFICATION

The serial number of each vehicle is printed on a bar code decal mounted either below the passenger side cup holder or above the accelerator or brake pedal (Example: PH0901-583947) **(Figure 4)**.

The two letters (1) at the beginning of the serial number indicate the vehicle model. The following four digits (2) indicate the model year and production week during which the vehicle was built. The six digits (3) following the hyphen represent the unique sequential number assigned to each vehicle built within a given model year. **See following NOTE.**

NOTE: *Have the vehicle serial number available when ordering parts or making inquiries.*

Build Code: The build code (4) is a five-digit number that appears on the vehicle serial number decal. The build code exists to enable the user to identify the correct owner's manual for a vehicle. This owner's manual is valid for the build code range indicated on the back cover of this owner's manual.

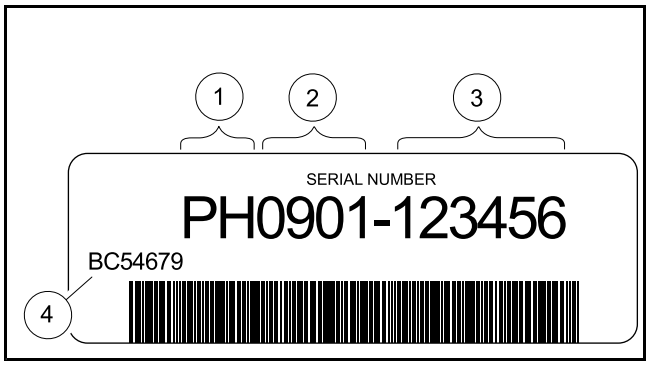

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Figure 4 Serial Number Decal

VEHICLE IDENTIFICATION NUMBER (VIN) AND CERTIFICATION LABEL

The vehicle identification number (VIN) is located on the top of the dash panel. The VIN certification decal is located underneath the canopy in view of the driver **See Safety Decal and Feature Identification on page 6.**

CONTROLS AND INDICATORS

See General Warnings on page 11.

⚠ WARNING

- **The vehicle should be operated by an adult who possesses an unrestricted driver's license issued by the State in which the vehicle will be operated.**
- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **Do not shift the Forward/Reverse switch while the vehicle is in motion. To avoid injury to an unsuspecting passenger or damage to the vehicle, always bring the vehicle to a full stop before shifting the switch.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Release the accelerator pedal and then press the brake pedal firmly until the vehicle stops. To avoid unintentionally starting or rolling the vehicle, set the park brake, place the Forward/Reverse switch in the NEUTRAL position, turn the key switch to the OFF position, and remove the key when leaving the vehicle.**
- **Any modification to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**

KEY SWITCH

The key switch (1) is mounted on the dash to the right of the steering column **(** Figure 5).

This vehicle is equipped with a two-position (“pedal-start”) key switch.

NOTE: *The key can be removed only when the key switch is in the OFF position.*

FORWARD/REVERSE CONTROL

The Forward/Reverse rocker switch (2) is located on the right-hand side of the instrument panel **(Figure 5)**. The **F** (FORWARD) and **R** (REVERSE) positions are clearly marked. Press the FORWARD side of the switch to operate the vehicle in the forward direction, or press the REVERSE side of the switch to operate the vehicle in reverse. When the rocker switch is positioned in NEUTRAL, with neither side down, the vehicle will not operate if the accelerator pedal is pressed. The reverse buzzer will sound as a warning when the Forward/Reverse switch is in the REVERSE position.

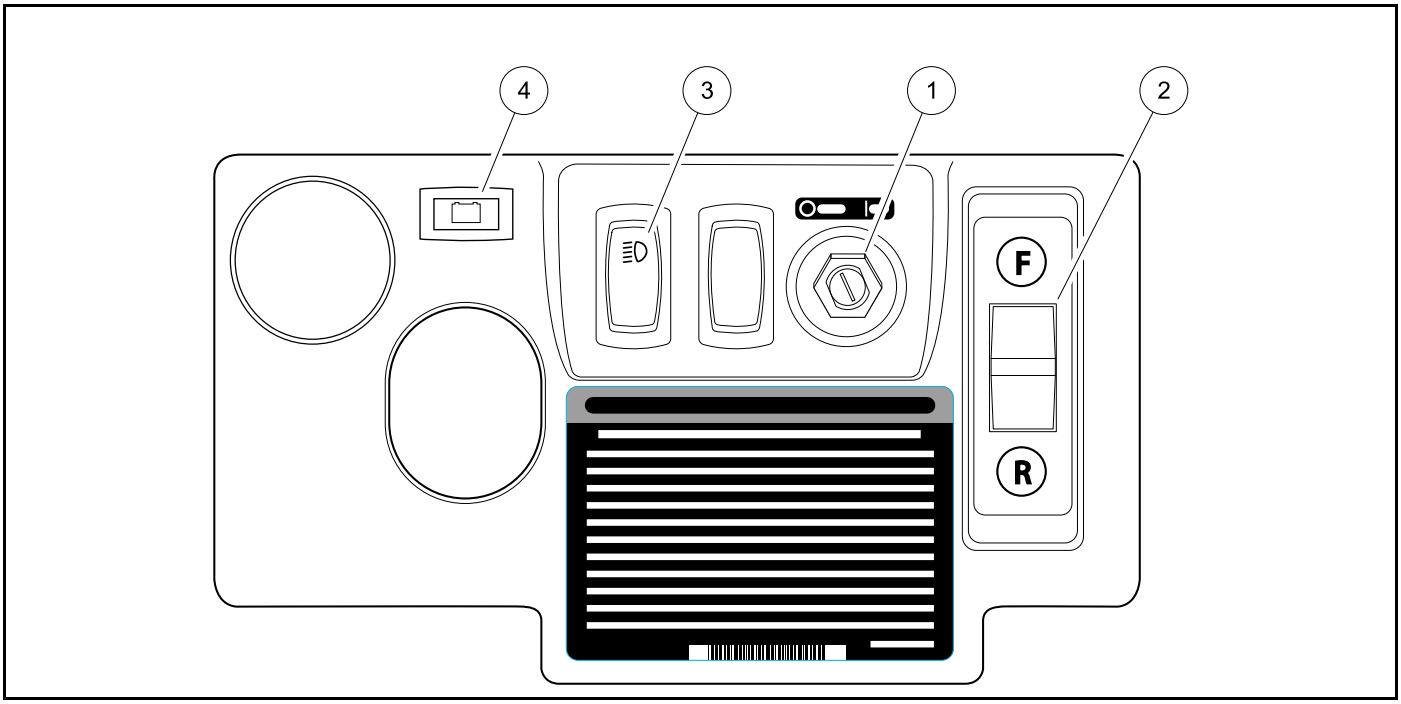

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Figure 5 Instrument Panel

BATTERY WARNING LIGHT

These vehicles feature a dash mounted warning light (4) (above steering column) that, when the vehicle is in operation, indicates low battery voltage or, when the vehicle is being charged, indicates a charging problem **(Figure 5)**. The battery warning light is controlled by the onboard computer.

When the vehicle is in operation, the warning light is designed to illuminate and remain illuminated if:

- Batteries' voltage drops below 48 when there is no load on the batteries (the vehicle is stopped and there are no accessories on).
- Batteries have discharged to less than 25% of rated capacity.

If the warning light illuminates when the vehicle is operating, there should be enough power remaining to drive the vehicle for approximately 30 minutes. However, the vehicle should be charged at the first opportunity. If the warning light illuminates and the vehicle is unable to operate for 30 minutes, have your Club Car distributor/dealer check the vehicle for a possible battery or electrical system problem.

When the batteries receive an incomplete charge because 1) AC power to the charger is interrupted, 2) automatic charger shut-off occurs after 16 hours of operation, 3) the charger malfunctions, or 4) the wrong charger is used, the warning light will indicate as follows:

- The warning light will not come on if the charge is 90% or more complete. The onboard computer will retain in memory the amount of charge needed to fully replenish the batteries and will complete the charge during the next charge cycle.
- When the charger is unplugged, the warning light will illuminate and remain illuminated for 10 seconds if the charge is less than 90% complete but the vehicle has enough power for approximately 30 minutes of operation. This will alert the operator that the vehicle may be used, but that it must be charged to completion as soon as possible.
- The warning light will repeatedly illuminate for 10 seconds, with 4 second intervals if the charger times out at 16 hours and the batteries are not sufficiently charged. **See battery charger owner's manual**. This indicates an abnormal charge cycle. The charger and batteries should be checked by your Club Car distributor/dealer.
- The warning light will repeatedly illuminate for 10 seconds, with 4 second intervals during a charge cycle (DC plug is still connected) if AC power to the charger is interrupted. The light will go out when AC power is restored.

LED Light: In addition to the warning light, there is an infrared LED in the dash light assembly, which transmits an infrared signal from the onboard computer (OBC). This signal is received by the optional Communication Display Module, which provides information on the condition of the vehicle and batteries.

BATTERY CONDITION INDICATOR (OPTION)

The battery condition indicator features a 10-bar LED display that, when the vehicle is in operation, displays the level of battery capacity, measuring battery voltage over a period of time.

When batteries are fully charged, all indicator lights will be on. When battery voltage drops below 75% of full discharge, the last two indicator lights will flash alternately. Continued use of vehicle after indicator lights begin flashing without recharging could result in decreased vehicle performance. **See following NOTE.**

NOTE: *If battery condition indicator moves rapidly (approximately 45 minutes) from full charge display to empty, there may be a problem with the wiring or with a battery cell. If indicator display does not reset back to full after recharging, there may be a problem with the battery charger or with one of the batteries. In either case the vehicle should be checked by a Club Car dealer or a trained technician.*

ACCELERATOR PEDAL

The accelerator pedal is the pedal on the right, with the word GO molded into it **(Figure 6)**. The operation of the accelerator pedal differs from that of an automobile:

These vehicles use a special electrical system, which employs motor braking in some modes of operation. In those modes, the vehicle operates as follows:

- **Walk-Away Braking:** This prevents the vehicle from rolling away uncontrolled should the driver park on a slope and leave the vehicle without locking the park brake. The vehicle will roll at about 1 - 3 mph (1.5 to 4.8 km/h) from a dead stop on a gradual slope. If the walk-away braking function remains engaged for two seconds or more, a warning buzzer will sound to alert the driver that motor braking has been activated.

⚠ WARNING

- **Walk-away braking will not limit vehicle speed to 1 mph (1.6 km/h) on steep grades. Do not operate vehicle on slopes exceeding 20% grades.**

- **Motor Braking:** This feature helps to control vehicle downhill speed. When traveling downhill, motor braking engages to maintain speeds proportional to the accelerator pedal position. For example, when the accelerator is fully depressed, motor braking holds the vehicle at the programmed top speed. When the accelerator pedal is fully released, motor braking slows the vehicle to a complete stop.

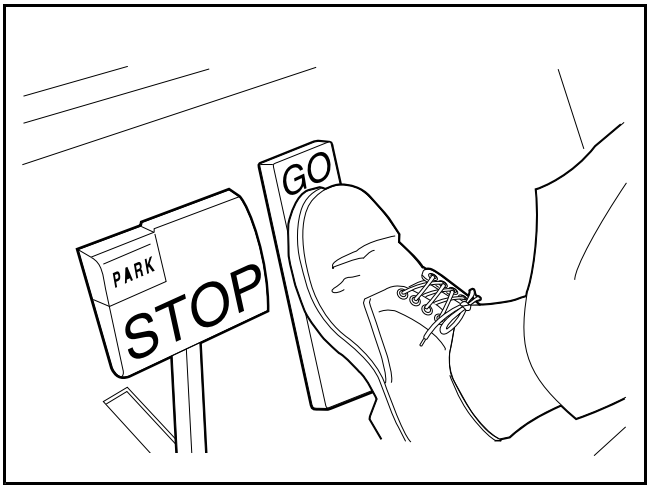

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Figure 6 Accelerator and Brake Pedals

BRAKE PEDAL

The brake pedal is the large pedal on the left with the word STOP molded into it **(Figure 6)**. To slow or stop the vehicle, press the brake pedal with your right foot **(Figure 7)**.

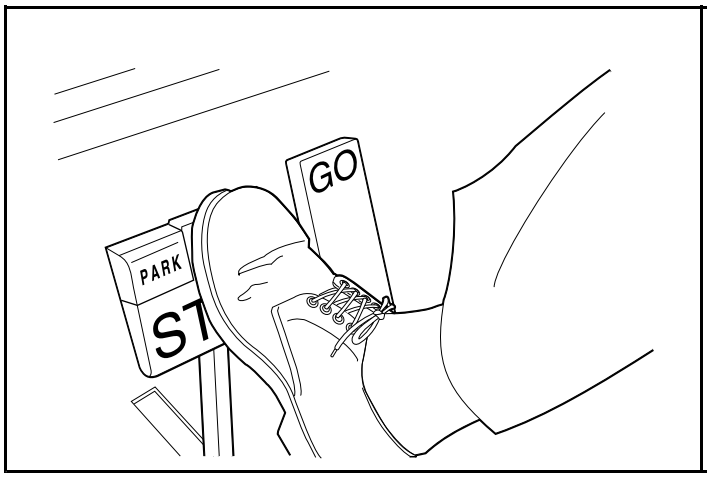

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Figure 7 Brake Pedal

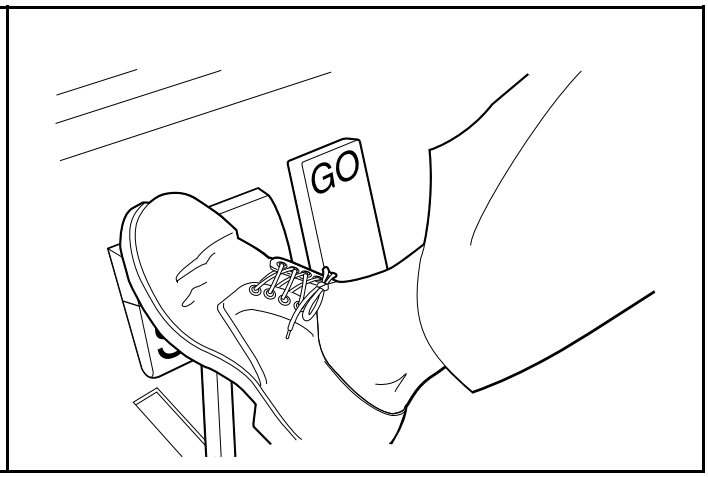

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Figure 8 Park Brake Pedal

PARK BRAKE PEDAL

The park brake pedal is the small raised portion in the upper left corner of the brake pedal. It has the word PARK molded into it and the words PARK BRAKE marked on top **(Figure 7)**. To set the park brake, press the brake pedal firmly and tilt the park brake portion of the pedal forward **(Figure 8)**. To disengage, apply pressure to the brake pedal.**See following WARNING.**

⚠ WARNING

- **The park brake will release when the brake pedal is pressed. The park brake has multiple locking positions and should be firmly pressed and locked to prevent the vehicle from rolling.**

NOTE: *The brake lights will illuminate when the park brake is engaged unless the key switch is in the OFF position.*

TOW/RUN SWITCH

⚠ WARNING

- **Place Tow/Run switch in the TOW position before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury.**
- **When the Tow/Run switch is in the TOW position, all motor braking functions, including walk-away braking, are disabled.**

Electric vehicles are equipped with a Tow/Run switch (1), located on the seat support panel under the seat **(**Figure 9**)**. The switch must be in the RUN position in order to operate the vehicle. When the switch is in the TOW position, power to the vehicle electrical components is turned off and the vehicle will not operate. **See following NOTE.**

NOTE: *After placing the Tow/Run switch in the TOW position, allow 10 seconds to elapse before switching back to the RUN position.*

After placing the Tow/Run switch in RUN position, allow 10 seconds to elapse before operating the vehicle.

The Tow/Run switch should be placed in the TOW position under the following conditions:

- **Before Towing the Vehicle:** Place the Tow/Run switch in the TOW position to disable all motor braking functions, thus preventing possible damage that could occur to the vehicle or electrical components if the vehicle is towed while the walk-away braking function is operating.
- **Before Disconnecting or Connecting Battery Cables:** Place the Tow/Run switch in the TOW position to turn off power to the vehicle electrical system, thus preventing severe arcing and possible battery explosion as the battery cables are disconnected.
- **For Long Term Storage:** Place the Tow/Run switch in the TOW position to turn off power to the vehicle electrical system, thus preventing vehicle electrical components from discharging the batteries.

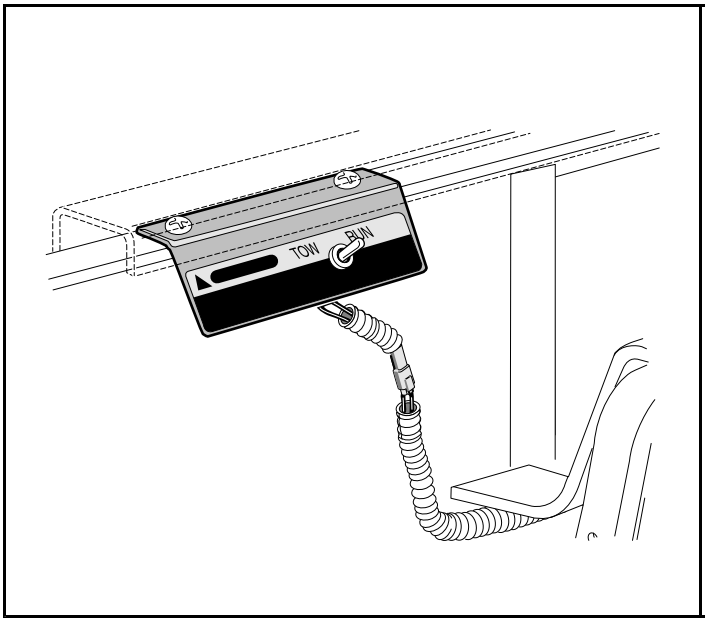

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Figure 9 Tow/Run Switch

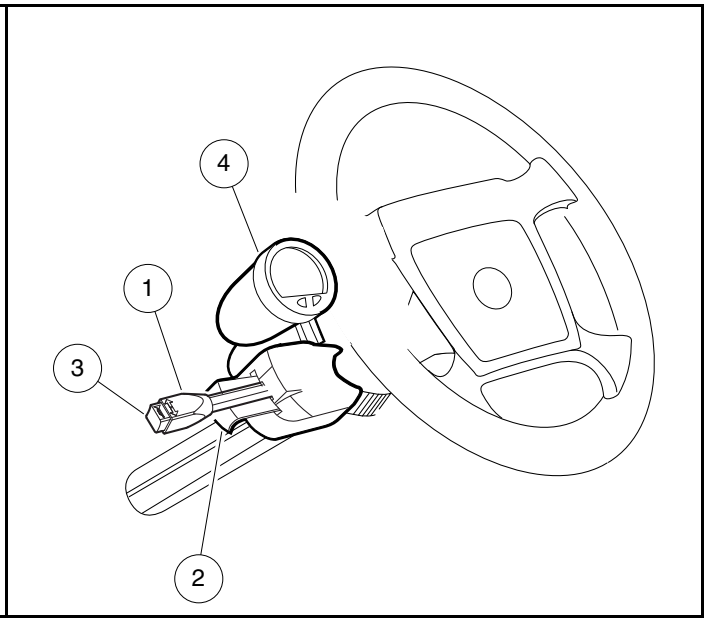

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Figure 10 Turn Signal Lever, Hazard Lights, Horn, and Speedometer

HEADLIGHTS/TAILLIGHTS

The light switch (3) is located on the instrument panel to the right of the steering column **(Figure 5)**. Press the side of the switch with the headlight symbol to turn the lights on and press the other side to turn the lights off.

BRAKE LIGHTS

The brake lights will illuminate when the brake pedal or the park brake is pressed. **See following NOTE.**

NOTE: *When the key switch is in the OFF position, the brake lights are disabled.*

TURN SIGNALS

The turn signal switch (1) is located on the steering column **(Figure 10)**. Move the handle up to indicate a right-hand turn. Move the handle down to indicate a left-hand turn. Return the handle to the center position after completing a turn.

HAZARD LIGHTS

The hazard light switch (2) is located just below the turn signal switch **(Figure 10)**. To activate the hazard lights, make sure that the turn signal switch is in the center (off) position, and pull the switch marked “hazard” until it is locked in place by the turn signal switch. To deactivate the hazard lights, move the turn signal switch in either direction and return it to the center position.

HORN

The horn button (3) is located on the end of the turn signal lever **(Figure 10)**. Press the button to activate the horn.

SPEEDOMETER

The speedometer (4) is located on the steering column **(Figure 10)**. The speedometer provides information on vehicle speed, odometer, and trip odometer.

The Koso Speedometer has two buttons for selecting and/or adjusting the features and functions available. The buttons are located on the lower front portion of the speedometer with the select button on the left, and the adjust button on the right. The main screen for the speedometer shows the speed digitally (large 3 digit, seven segment display, centrally located) with the bar graph around the periphery, and the odometer displayed below the speed (small 5 digit, seven segment display) denoted by ODO on the left side of the numbers.

The speedometer has three range settings: 160km/h, 260km/h, and 160MPH. The range setting may be indexed to the next setting by pressing and holding the adjust button for 3 seconds from the main screen.

The speedometer also has a Trip A and Trip B meter function for recording user selectable distances. To access the Trip A function, press the adjust button one time from main screen. The small 5 digit, seven segment display will now indicate the distance travelled since the last Trip A reset and is denoted by TRIP A on the left side of the numbers. To reset the Trip A meter, press the adjust button for 3 seconds from the Trip A function screen. To access the Trip B function, press the adjust button one time from the Trip A screen. The small 5 digit, seven segment display will now indicate the distance travelled since the last Trip B reset and is denoted by TRIP B on the left side of the numbers. To reset the Trip B meter, press the adjust button for 3 seconds from the Trip B function screen. Pressing the adjust button one time from the Trip B function screen will index the display to the fuel function screen. The fuel function screen is not used on this application. Pressing the adjust button one time from the fuel function screen will return to the main screen.

The speedometer can display average speed, max speed, and riding time. To access the average speed screen, from the main screen press the select button one time. The digital speed reading and the bar graph will indicate the average speed since the last reset of the Trip B meter as denoted by AVE above the speed. Also on this screen, the 5 digit, seven segment display will indicate riding time since the Trip B meter was last reset. When the riding time is displayed as 00:00, the units are 00 hours and 00 minutes. When the riding time is displayed as 00-00, the units are 00 minutes and 00 seconds. The average speed and riding time may be reset by pressing the select button for 3 seconds from the average speed screen. NOTE: Resetting the average speed and riding time also resets the Trip B meter function.

To access the max speed screen, press the select button one time from the average speed screen. The maximum speed achieved since the last reset will be displayed as denoted by MAX above the speed. To reset the max speed, press the select button for 3 seconds from the max speed screen. To return to the main screen, press the select button one time from the max speed screen.

To check the factory settings for proper speed indication for factory installed tires, simultaneously press the select and adjust buttons for 3 seconds. The large 3 digit, seven segment display should indicated 20P while the small 5 digit, seven segment display should indicate 0700-. The values may be adjusted by selecting the applicable digit (denoted by flashing) using the select button and changing the value with the adjust button.

SEAT BELTS

LSV vehicles are equipped with seat belts, one for each occupant. **See following WARNING.**

⚠ WARNING

- **The seat belts must be properly installed before operating the vehicle. Club Car strongly urges that the vehicle's occupants be properly restrained at all times with the seat belts provided.**

See Transporting Children on page 25.

Pregnant women: Consult your doctor for specific recommendations. The seat belt should be worn securely and as low as possible over the hips and not on the waist.

Injured persons: Depending on the injury, first check with your doctor for specific recommendations.

Forward facing seats:

To secure the retractable seat belt, sit up straight and well back in the seat. Pull the seat belt out of the retractor and insert the tab into the buckle. A click will be heard when the tab locks into the buckle. Position the lap belt as low as possible on the hips, not on the waist. After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.

Make sure the shoulder belt is positioned across the center of the shoulder. The belt should be kept away from the neck, but not falling off the shoulder.

The retractor will lock the belt during a sudden stop. It also may lock if the occupant leans forward too quickly. A slow, easy motion will allow the belt to extend, and the occupant can move freely. If the seat belt cannot be pulled out of the retractor, firmly pull the belt and release it. It should then pull smoothly out of the retractor.

To release the seat belt, press the buckle release button (1) and allow the belt to retract **(Figure 11)**. If the belt does not retract smoothly, pull it out and check for kinks or twists. Then make sure it remains free of twists as it retracts.

Rear facing seats:

To secure the non-retractable seat belt, sit up straight and well back in the seat. Pull the seat belt (1) over your hips and insert the tab into the buckle. A click will be heard when the tab locks into the buckle. Position the seat belt as low as possible on the hips, not on the waist. After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted. The seat belt should be snug but comfortable **(Figure 12)**. To remove the slack in the seat belt, pull on the inner seat belt loop in order to tighten the seat belt.

To release the seat belt, press the buckle release button.

⚠ WARNING

- **The driver and all passengers must be restrained at all times with the seat belts provided to help prevent injury in the event of sudden braking, collision, or roll-over.**
- **In the event of a roll-over, do not attempt to jump or otherwise exit the vehicle. Remain seated with seat belt fastened and with arms and legs inside the vehicle.**
- **After inserting the tab, make sure the tab and buckle are locked and that the belt is not twisted.**
- **Make sure the shoulder belt is positioned across the center of the shoulder. The belt should be kept away from the neck, but not falling off the shoulder. Failure to do so could reduce the amount of protection and increase the chance of injury.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

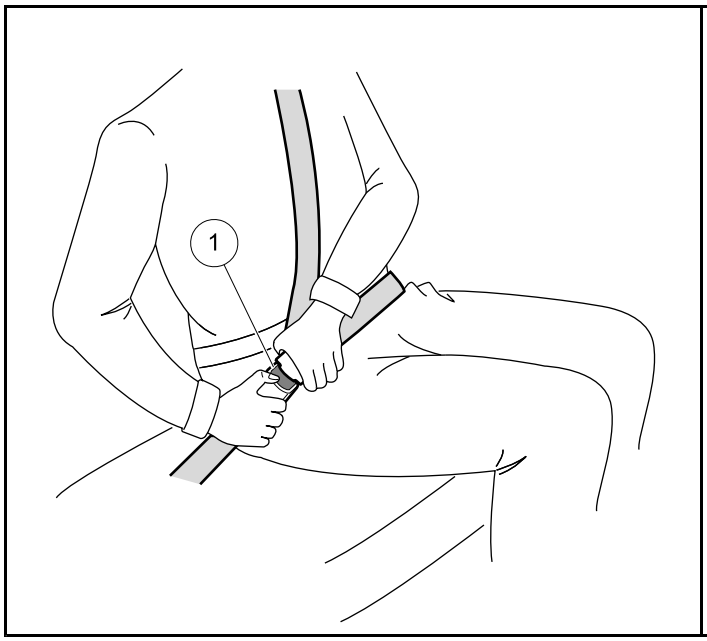

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Figure 11 Retractable Seat Belt

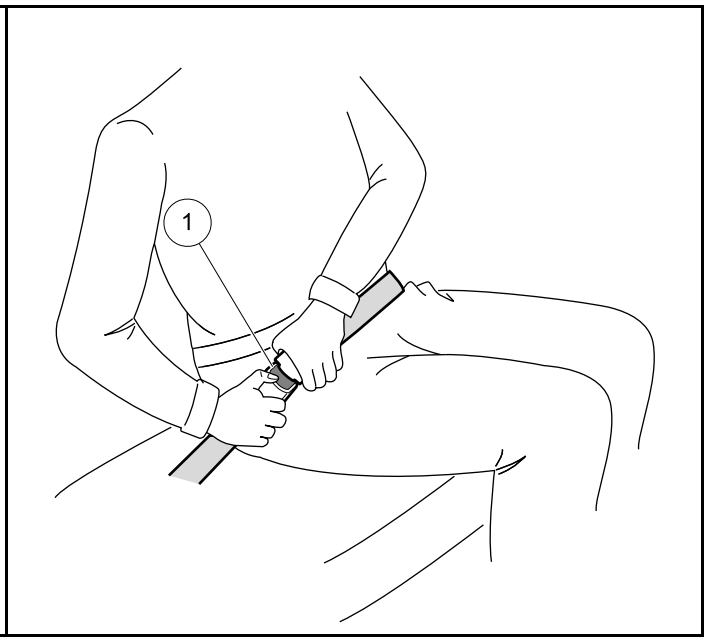

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Figure 12 Non–Retractable Seat Belt

- **Loose fitting seat belts could increase the chance of injury due to sliding under the belt if sudden braking should occur. Keep the seat belt snug and positioned as low on the hip bone as possible.**
- **Use a single seat belt for one person at a time. Do not use a single seat belt for two or more people – this includes children.**
- **No more than two persons per bench seat at one time. Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a passenger to hold a child in his or her lap while the vehicle is moving.**
- **Be careful not to damage the seat belt webbing or hardware.**
- **Inspect the seat belt system periodically. Check for cuts, fraying, and loose parts. Damaged parts should be replaced immediately. Do not disassemble or modify the system.**
- **Keep seat belts clean and dry. If cleaning is necessary, use a mild soap and lukewarm water solution. Do not use bleach, dye or abrasive cleaners as they may severely weaken the seat belts.**
- **Do not insert coins, clip, etc. in the buckle as this may prevent the tab from locking into the buckle properly.**
- **If the seat belt does not function normally, contact your dealer/distributor or trained technician immediately. Do not occupy the seat until the seat belt is repaired.**

TRANSPORTING CHILDREN

⚠ WARNING

- **The vehicle is not designed to meet child safety seat compatibility requirements. Children requiring a child safety seat or that could benefit from the protection of one must not ride on the vehicle. Comply with state and local laws pertaining to child safety.**
- **Do not leave children unattended on vehicle.**
- **Do not allow a passenger to hold a child on his or her lap while the vehicle is moving.**

PRE-OPERATION AND DAILY SAFETY CHECKLIST

Each Club Car vehicle has been carefully inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with its controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.

Use the following checklist as a guide to inspect the vehicle. This checklist should be used daily to ensure that the vehicle is in proper working condition and in conjunction with the Performance Inspection on page 25 and the Periodic Service Schedule on page 31. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight.
- **Safety and information decals:** Check to ensure that all safety and information decals are in place. **See Safety Decal and Feature Identification on page 6.**
- **Tires:** Check for proper tire pressure, wear, and damage. If tires are worn or damaged, replace then immediately. Ensure replacement tires meet (Federal Motor Vehicle Safety Standards) FMVSS 109 and 119 requirements. replacement tires must also have a “DOT” marking and be of the specified size. **See Vehicle Specifications on page 44.See Vehicle Specifications on page 44.**
- **Batteries:** Check electrolyte to ensure that it is at its proper level **(** Figure 14, Page 36**)**. Check battery posts. Wires should be tight and free of corrosion. Charge batteries fully before first use of vehicle.
- **Charger cord and plug:** Visually inspect for cracks, loose connections, and frayed wiring.
- **Performance Inspection:** Inspect as instructed. **See Performance Inspection on page 25.**

⚠ WARNING

- **Be sure the plastic has been removed from the seat bottom before operating the vehicle. Failure to do so may result in a fire, property damage, personal injury, or death.**

PERFORMANCE INSPECTION

After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive.

Use the following checklist, in conjunction with the Daily Pre-Operation and Safety Checklist, as a guide to inspect the vehicle and check daily for proper operation. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

- **Forward/Reverse control:** Check for proper operation. **See Controls and Indicators on page 16.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully pressed under moderate pressure, it should not go more than halfway to the floor, and vehicle should come to a smooth, straight stop. If the brake

pedal goes more than halfway to the floor, or if the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. Brake adjustment must be maintained so that the brake pedal cannot be pressed to the floor under any circumstance.

- **Park brake:** When latched, the park brake should lock the wheels and hold the vehicle stationary (on an incline of 20% or less). It should release when pressure is applied to the brake pedal.
- **Reverse buzzer:** The reverse buzzer should sound as a warning when the Forward/Reverse switch is in the REVERSE position.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel.
- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle ride and performance. Have a Club Car distributor/dealer or a trained technician investigate anything unusual.
- **Accelerator:** With the key switch in the ON position and the Forward/Reverse switch in the FORWARD position, as the accelerator pedal is pressed, the motor should start and the vehicle should accelerate smoothly to full speed. Club Car vehicles operate at reduced speed in reverse. When the pedal is released, it should return to the original position and the motor should go into motor braking mode. **See Motor Braking below.**
- **Walk-Away Braking:** With the vehicle parked on level ground and the park brake disengaged, place the Tow/Run switch in the RUN position and attempt to push the vehicle. Motor braking should engage and cause resistance to rolling (moving at no more than 1 to 3 mph) (1.5 to 4.8 km/h) with the Forward/Reverse switch in any position. When walk-away braking is engaged, the reverse buzzer should emit a distinct pattern of beeps. **See following WARNING.**

⚠ WARNING

- **Walk-away braking will not limit vehicle speed to 1 mph (1.6 km/h) on steep grades. Do not operate vehicle on slopes exceeding 20% grades.**

- **Motor Braking:** Accelerate down an incline with the accelerator pedal fully pressed. When the vehicle reaches maximum programmed speed, motor braking should engage and limit the vehicle to its maximum programmed speed. On very steep grades, the vehicle may slightly exceed its maximum programmed speed, requiring the use of the brake pedal. Also, travel downhill with the accelerator pedal partially pressed. Motor braking should limit speed to less than top speed and maintain speeds proportional to the accelerator pedal position. On a level surface, accelerate the vehicle to full speed and then release the accelerator pedal. Motor braking should smoothly slow the vehicle to a complete stop.

DRIVING INSTRUCTIONS

⚠ WARNING

- **The driver must possess a valid, unrestricted driver's license issued by the State in which the vehicle will be operated.**
- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **No more than four people should be on the vehicle at one time.**
- **The driver and passengers must be restrained at all times with seat belts to help prevent injury in the event of sudden braking or collision.**
- **Do not allow people to ride in any part of the vehicle that is not equipped with a seat and a seat belt. Do not allow a third person to sit in the middle of the seat or allow a passenger to hold a child in his or her lap while the vehicle is moving.**
- **The vehicle is not specially equipped for handicapped persons:**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **– Be sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.**
- **– Be sure all passengers are capable of securing themselves in a vehicle before allowing them to ride in one.**

- **Stop the vehicle before shifting the Forward/Reverse switch. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.**
- **Do not leave children unattended on vehicle.**
- **To help avoid being struck, do not stand in front of or behind the vehicle.**
- **Operate the vehicle from the driver seat only.**
- **To help prevent falls from the vehicle, remain seated in a moving vehicle with seat belt fastened. Driver should keep both hands on the steering wheel when the vehicle is in motion.**
- **To help prevent the possibility of serious injury, keep entire body inside the vehicle.**
- **To help prevent overturning the vehicle, drive slowly in turns.**
- **To help prevent overturning the vehicle, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% grade.**
- **Avoid stopping a loaded vehicle on a hill. If a loaded vehicle must be stopped on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could result in overturning the vehicle.**
- **To help avoid possible injury to inattentive passengers and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.**
- **To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet surfaces or rough terrain.**
- **Do not drive while under the influence of alcohol, drugs, or medications.**
- **Use brakes to reduce speed when coasting downhill.**
- **Avoid roads with regular traffic, even if the speed limit is low.**
- **Avoid operating the vehicle at night or in adverse weather conditions because your vehicle may be difficult for others to see. If the vehicle must be operated at night, use headlights and taillights.**
- **Do not drive the vehicle under tree limbs, bridges, tunnels, or other objects that are less than 80 inches from the ground.**
- **This vehicle is not intended to be used where risk of falling objects exists. If your vehicle will be used In such an environment, contact your local dealer.**

No one should drive the vehicle without first being instructed in the proper operation and use of the vehicle's controls. An experienced operator should accompany each first-time driver on a test drive before allowing them to operate the vehicle alone.

To ensure safe operation of the vehicle, follow exactly and in order, all of the following procedures. Read and understand all instructions prior to driving the vehicle.

STARTING THE VEHICLE

1. Study and understand controls.
2. Make sure load is secure.
3. Make sure everyone is seated, restrained in seat belts, and holding onto hand holds. Driver should have both hands on the steering wheel.
4. Read safety and information decals located on the steering wheel, the dash panel, and above the pedals.
5. Make sure wheels are turned in desired direction and that nothing is obstructing vehicle's path.
6. Press and hold the brake pedal.

7. **Start the vehicle:**
   7.1. Turn the key to the ON position.
   7.2. Release the park brake.
   7.3. Select direction by placing the Forward/Reverse switch in the desired position (F = forward or R = reverse). A buzzer will sound as a warning when the Forward/Reverse switch is in the REVERSE position.
   7.4. Release the brake pedal completely, and then slowly press the accelerator pedal. As the accelerator pedal is pressed, speed will increase until full speed is reached. **See following WARNING.**

⚠ WARNING

- **Operator must control vehicle speed when going downhill.**
- **Motor braking may be used to help control speed when going downhill; however, steep terrain or other conditions may require that pedal braking be used in conjunction with motor braking.**

STOPPING THE VEHICLE

⚠ WARNING

- **Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently pressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to press the brake pedal until the brakes dry out and normal performance returns.**

⚠ CAUTION

- **When stopped on a hill, use the brake pedal to hold your position. Do not use the accelerator pedal to hold position.**

To stop vehicle, release the accelerator pedal and press the brake pedal until vehicle comes to a complete stop.

PARKING AND LEAVING THE VEHICLE

1. After stopping vehicle, firmly press the park brake pedal until it locks. Make sure it is fully engaged.
2. Turn the key switch to the OFF position and place the Forward/Reverse switch in the NEUTRAL position. Remove the key when the vehicle is not in use.
   – When the Tow/Run switch is in the RUN position (with the Forward/Reverse switch or key switch in any position), the walk-away braking function is designed to prevent the vehicle from rolling at more than 1 to 3 mph (1.5 to 4.8 km/h) on slopes of less than 20% unless the accelerator is pressed.

TRANSPORTING ON A TRAILER

⚠ WARNING

- **Do not allow riders in the trailer being towed.**
- **Avoid sudden starts, sudden stops, and tight turns when towing.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury.**
- **Reduce normal driving speed when transporting a Club Car vehicle on a trailer.**
- **Do not tow a Club Car vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.**
- **For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.**
- **The vehicle to be transported should be tied securely to the trailer, with the Forward/Reverse handle or switch in the NEUTRAL position, the key switch in the OFF position, and the park brake firmly engaged.**
- **Because of the added length of the trailer, use caution when making turns.**
- **Do not transport the vehicle on a trailer with a load in the vehicle cargo bed.**
- **Secure the seats before transporting on a trailer.**

If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer that has the following approved load rating per vehicle being transported:

Villager 2 LSV : 1069 lb. (486 Kg)

Villager 2+2 LSV :1129 lb. (512 kg)

NOTE: *A two-car trailer should be rated at:*

Villager 2 LSV : 2 x 1069 lb. = 2138 lb. (2 x 486 kg = 972kg)

Villager 2+2 LSV : 2 x 1129 lb. = 2258 lb. (2 x 512 kg = 1024kg)

STORAGE

See General Warnings on page 11.

⚠ WARNING

- **Turn the key switch to the OFF position, remove the key, and leave the Forward/Reverse handle or switch in the NEUTRAL position during storage. This is to prevent unintentionally starting the vehicle or a fire hazard. Place Tow/Run switch in the TOW position.**
- **Do not attempt to charge frozen batteries or batteries with bulged cases. Discard the battery in accordance with all environmental laws or return to an authorized Club Car dealer. Frozen batteries can explode.**

⚠ CAUTION

- **Batteries in a low state of charge will freeze at low temperatures.**
- **To avoid exposing electrical components to moisture and subsequent damage, do not use any type or pressure washing or steam cleaning equipment to wash the vehicle.**

PREPARING THE VEHICLE FOR EXTENDED STORAGE

1. Unload the vehicle so that tires are supporting only the weight of the vehicle.
2. Fully charge batteries. **See Charging Batteries on page 39.**
3. Batteries should be clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse solution off batteries. Do not

allow this solution to enter the batteries. Be sure terminals are tight. Let the terminals dry and then coat them with Battery Terminal Protector Spray (CC P/N 1014305).

4. Store vehicle in a cool, dry place. This will minimize battery self-discharge.
5. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 44.**
6. Perform semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 33.**
7. Thoroughly clean front body, rear body, seats, cargo bed, battery compartment, and underside of vehicle.
8. Do not engage the park brake. Properly chock the wheels to prevent the vehicle from rolling.
9. Keep batteries fully charged during storage.
   9.1. Leave battery chargers plugged in during storage. The onboard computer (OBC) will automatically activate the charger when necessary.
   9.2. If the battery charger is left plugged in during extended storage, check the electrolyte level and charger function monthly to ensure that proper operation is maintained. To check charger function, disconnect the AC cord (onboard charger) from the power source, wait five seconds, then reconnect it. The charger is functioning properly if the ammeter indicates current.

NOTE: The OBC keeps track of the time spent in storage mode. When the OBC detects that the storage charge cycles may have depleted the available electrolyte, it will stop the charger from further operation. *Disconnecting then reconnecting the AC cord (onboard charger) indicates the electrolyte levels have been maintained and allows the OBC to resume operation.*

While in storage, the Tow/Run switch should be in Tow. When in Tow mode, the amber battery warning light will not illuminate. Do not attempt to use the battery light as an indication of battery state while in storage.

   9.3. If AC power is off for 7 days or longer, the OBC will not function or charge the vehicle again until it has been restarted. To restart the computer, make sure AC power has been restored, disconnect the AC cord (onboard charger) from the power source, wait five seconds, then reconnect it.

CAUTION

- **Be sure to check the batteries and charger monthly to maintain correct battery water level and to ensure the charger is operating correctly during storage.**

   9.4. If the charger cannot remain plugged in, AC power will not be available during extended storage, or electrolyte levels will not be maintained, then disconnect the batteries for storage **(Figure 1, Page 13)**.

RETURNING THE STORED VEHICLE TO SERVICE

1. If necessary, connect batteries. **See Connecting the Batteries – Electric Vehicles on page 13.**
2. Fully charge batteries.
3. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 44.**
4. Perform the Pre-Operation and Daily Safety Checklist on page 25 and the Performance Inspection on page 25.

MAINTENANCE

See General Warnings on page 11.

To ensure trouble-free vehicle performance, it is very important to follow an established preventive maintenance program. Regular and consistent vehicle maintenance can prevent vehicle downtime and expensive repairs that can result from neglect. Use the Pre-Operation and Daily Safety Checklist on page 25, the Performance Inspection on page 25, and the following Periodic Service Schedule and Periodic Lubrication Schedule to keep the vehicle in proper working condition.

Any vehicle not functioning correctly should be removed from use until it is properly repaired. This will prevent further damage to the vehicle and avoid the possibility of injury due to unsafe conditions.

Contact your local Club Car distributor/dealer to perform all repairs and semiannual and annual periodic service.

⚠ WARNING

- **If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**
- **Hot! Do not attempt to service motor. Attempting to do so could cause severe burns.**
- **Do not work on vehicle powertrain or under the cargo bed when it is loaded.**
- **Do not wear loose clothing or jewelry, such as rings, watches, chains, etc., when servicing the vehicle.**
- **Turn the key switch to OFF, remove the key, place the Forward/Reverse switch in the NEUTRAL position, and chock tires prior to servicing.**

PERIODIC SERVICE SCHEDULE

See General Warnings on page 11.

⚠ WARNING

- **Service, repairs, and adjustments must be made per instructions in the maintenance and service manual.**
- **If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**

NOTE: *If the vehicle is constantly hauling heavy loads or hauling a trailer, these preventive maintenance procedures should be performed more often than recommended in the Periodic Service Schedule.*

Both the Periodic Service Schedule and the Periodic Lubrication Schedule must be followed to keep vehicle in optimum operating condition.

PERIODIC SERVICE SCHEDULE		
REGULAR INTERVAL	**SERVICE**	
Daily service by owner	Pre-Operation and Daily Safety Checklist	**See Pre-Operation and Daily Safety Checklist on page 25.**
	Performance Inspection	**See Performance Inspection on page 25.**
	Batteries	Charge batteries (after each daily use only).
Weekly service by owner	Batteries	Check electrolyte level. Add water if necessary. **See page 36.**
Monthly service by owner or trained technician	Batteries	Wash battery tops and clean terminals with baking soda/water solution.
	Tires	Check air pressure and adjust if necessary. **See Vehicle Specifications on page 44.**
	General vehicle	Wash battery compartment and underside of vehicle.
Semiannual service by trained technician only (or every 50 hours of operation, whichever comes first)	Brake system	Check brake shoes; replace if necessary or adjust as required. **See Wheel Brake Assemblies Section in the appropriate maintenance and service manual**
		Lubricate brake slides per Lubrication Schedule.**See Wheel Brake Assemblies Section in the appropriate maintenance and service manual.**
		Check brake cables for damage; replace if necessary.
	Electrical wiring and connections	Check for tightness and damage.
	Forward/Reverse switch	Check condition of contacts and wire connections; make sure connections are tight.
	Front wheel alignment and camber	Check and adjust as required. **See Steering and Front Suspension in the maintenance and service manual.**
	Motor Controller Output Regulator (MCOR)	Check for loose hardware, cracks, or other damage.
Annual service by trained technician only (or every 100 hours of operation, whichever comes first)	Batteries	If batteries are not performing as expected, see Batteries in the maintenance and service manual.

PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE			
REGULAR INTERVAL	**SERVICE**	**LUBRICATION POINTS**	**RECOMMENDED LUBRICANT**
Semiannually by owner or trained technician (or every 50 hours of operation, whichever comes first)	Brake pedal shaft bearings	1	Dry Moly Lube (CC P/N 1012151)
	Brake Linkage and pivots	2	Dry Moly Lube (CC P/N 1012151)
	Accelerator pivot rod supports	3	Dry Moly Lube (CC P/N 1012151)
	Charger Receptacle (if so equipped)	4	WD-40
	Brake Slides	5	Dry Moly Lube (CC P/N 1012151)
	Front suspension (2 fittings)	6	Chassis Lube – EP NLGI Grade 2
Annually by trained technician only (or every 100 hours of operation, whichever comes first)	Check/fill transaxle to plug level	7	22 oz. (0.67 liters) SAE 30 WT. API Class SE, SF, or SG Oil (or higher)
	Inspect front wheel bearings (Repack as necessary)	8	Chassis Lube – EP NLGI Grade 2

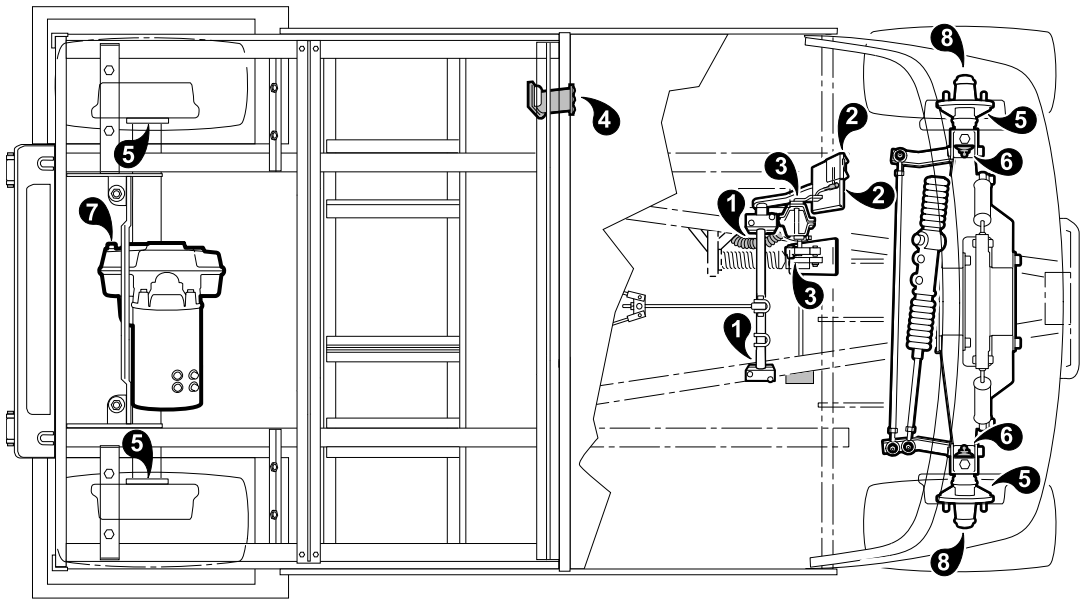

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Figure 13 Lubrication Points

BATTERIES

See General Warnings on page 11.

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Charge batteries in a well-ventilated area only. Batteries emit hydrogen while being charged. Hydrogen is an explosive gas and must never exceed a level of 2% of the air.**
- **Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing. Antidotes:**
  - **External: Flush with water. Call a physician immediately.**
  - **Internal: Drink large quantities of milk or water followed with milk of magnesia or vegetable oil. Call a physician immediately.**
  - **Eyes: Flush with water for 15 minutes. Call a physician immediately.**

⚠ WARNING

- **Wear safety glasses or approved eye protection when servicing the vehicle or battery charger. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**
- **Ensure battery connections are clean and properly tightened. See Battery Care – Water Quality on page 34.**
- **Use only 4-gauge (AWG) wires with low-resistance terminals to replace battery wires on the vehicle.**

CAUTION

- **Turn off all accessories before charging batteries.**

NOTE: *Recycle or dispose of discarded batteries in accordance with local, state, and federal regulations.*

Club Car electric vehicles use deep-cycle batteries. Automotive batteries should never be used in electric vehicles.

New batteries will not deliver their full capabilities until they have been discharged and recharged 20 to 50 times. To obtain maximum service life from new batteries, restrict the use of vehicles with new batteries to one hour of operation between charges for the first two months vehicle is in service. Batteries should be fully charged before first use of new vehicle, before first use of a vehicle after storage, and before releasing vehicle for use each day.

BATTERY CARE – WATER QUALITY

To keep batteries in good working condition, the purity of water used is very important. Distilled water is quite pure and is the most common type of water used in batteries. Other acceptable types are deionized water and water from reverse osmosis. Ordinary tap water should not be used because it contains an excessive amount of impurities that will degrade battery performance.

Distilled water is produced by distillation, a process in which water is boiled, the steam is collected and then condensed back into water. This process creates a finished product free of minerals, having left all the impurities in the original water sample. Club Car, along with our battery manufacturers, highly recommends that distilled water be used in electric vehicle batteries.

Deionized water is the purest form of water, but it is also the most expensive. Deionization removes all ionizable particles (organic and inorganic) from water through ion exchange. Positively and negatively charged ions are removed from the water and replaced with H+ and OH- ions. When these two ions are combined, they form H2O, or purified water.

Reverse osmosis is a method of removing solids from water by forcing it through a membrane. The membrane rejects all solids while allowing purified water to pass through. The choice of membrane determines the amount of impurities that the water may contain.

Water from municipal supplies, ponds and wells usually contain detrimental levels of dissolved minerals and chemicals. If using tap water, it is important to use an in-line deionizer to remove impurities that can damage batteries and significantly reduce battery life. If tap water is used without a deionizer, regular water analyses must be conducted to check for impurities because water companies commonly revise their additives on a periodic basis. The following chart lists the maximum allowable minerals, solids, and contaminates in parts per million and their impact on battery performance. Your local water company should be able to perform testing and compare their results to the chart.

If using tap water, Club Car's Service Parts Department offers two different deionzier systems: one for vehicles equipped with the Single Point Water System (SPWS) CC P/N AM1240701 and the other for vehicles without SPWS, CC P/N AM10974.

IMPURITY	ALLOWABLE CONTENT (PARTS PER MILLION)	EFFECTS OF IMPURITY
Suspended matter	Trace	-
Total solids	100.0	-
Organic and volatile matter	50.0	Corrosion of positive plates
Ammonia	8.0	Slight self-discharge of both plates
Antimony	5.0	Self-discharge, reduces life, lower on-charge voltage
Arsenic	0.5	Self-discharge, can form poisonous gas
Calcium	40.0	Increase of positive plate shedding
Chloride	5.0	Loss of capacity in plates, greater loss in positive plates
Copper	5.0	Increased self-discharge, lower on-charge voltage
Iron	3.0	Increased self-discharge, lower on-charge voltage
Magnesium	40.0	Reduced life
Nickel	None allowed	Intense lowering of on-charge voltage
Nitrates	10.0	Increased sulfation of negative plate
Nitrates	5.0	Plate corrosion, loss of capacity, reduced life
Platinum	None allowed	Violent self-discharge, lower on-charge voltage
Selenium	2.0	Positive plate shedding
Zinc	4.0	Slight self-discharge of negative plates

BATTERY CARE – VEHICLES WITHOUT THE SINGLE-POINT WATERING SYSTEM

To keep batteries in good working condition, follow this maintenance program on a regular basis. Proper battery maintenance is critical not only for good performance, but also for safe operation. **See following WARNING.**

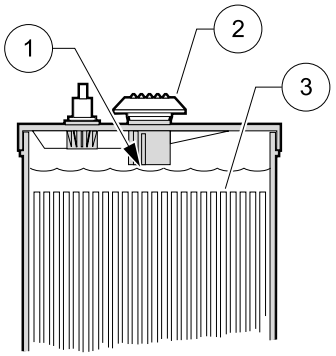
⚠ WARNING

- **Ensure battery connections are clean and properly tightened.**
- **Use only 4-gauge (AWG) wires with low-resistance terminals to replace battery wires.**
- **If battery wire terminals are damaged or corroded, replace or clean them as necessary. Failure to do so may cause them to overheat during operation and could result in a fire, property damage, or personal injury.**

1. Batteries should be kept clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup baking soda (237 mL) per gallon (3.8 L) of water). Rinse solution off batteries. Do not allow this solution to enter the battery. Be sure terminals are tight. Let the terminals dry and then spray them with Battery Terminal Protector Spray (CC P/N 1014305). **See following NOTE.**

NOTE: *Dispose of waste water properly.*

2. The electrolyte level in the batteries should be checked weekly **(Figure 14)**. Add distilled water only after charging unless the electrolyte level is below the top of the plates. In this case, add just enough distilled water to cover the plates, charge and then check the level again. Never charge batteries if plates are exposed above electrolyte level. For best battery life, use only distilled water. **See following CAUTION and NOTE.**



1. Level Indicator 2. Cap 3. Plates

Electrolyte level at least 1/2 inch (13 MM) above plates or to level indicator.

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Figure 14 Electric Battery Electrolyte Level

⚠ CAUTION

- **Do not overfill the batteries.**

NOTE: *A battery watering gun or bottle is available at many auto parts dealers.*

3. The hold-down straps should be tight enough so batteries do not move while the vehicle is in motion, but not so tight as to crack or buckle the battery case. Tighten hold-down retaining nuts to 55 in-lb (6.2 N·m). The terminal

connections should be clean and tight, and any worn insulation or frayed wires should be replaced. Tighten battery terminals to proper torque. **See Connecting the Batteries – Electric Vehicles on page 13.**

4. After use, the batteries should be placed on charge. The batteries should never be left discharged any longer than absolutely necessary (do not leave batteries discharged overnight).

BATTERY CARE – VEHICLES EQUIPPED WITH THE SINGLE-POINT WATERING SYSTEM

To keep batteries in good working condition, follow this maintenance program on a regular basis:

1. Keep the batteries clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup (237 mL) baking soda per gallon (3.8 L) of water). Rinse solution off of the batteries. Do not allow this solution to enter the battery. Be sure terminals are tight. Let the terminals dry and then coat with Battery Terminal Protector Spray (CC P/N 1014305). **See following NOTE.**

NOTE: *Dispose of waste water properly.*

2. The battery hold-downs should be tight enough so that the batteries do not move while the vehicle is in motion, but not so tight as to crack or buckle the battery case. Tighten hold-down retaining nuts to 55 in-lb (6.2 N·m). The terminal connections should be clean and tight, and any worn insulation or frayed wires should be replaced. Tighten battery terminals to proper torque. **See Connecting the Batteries – Electric Vehicles on page 13. See following WARNING.**

⚠ WARNING

- **If battery wire terminals are damaged or corroded, replace or clean them as necessary. Failure to do so may cause them to overheat during operation and could result in fire, property damage, or personal injury.**

3. After use, charge the batteries. The batteries should never be left discharged any longer than absolutely necessary (do not leave discharged overnight).
4. Water the batteries monthly or according to the watering interval. **See Establishing the Watering Interval for New Vehicles on page 37. See Watering Batteries with the SPWS on page 40.**

CAUTION

- **The watering interval must adequately maintain the electrolyte level above the top of the plates. See Figure 14.**
- **Water the batteries only AFTER charging.**

Establishing the Watering Interval for New Vehicles

If you do not already have a battery watering interval for your vehicles, manually check the battery water level weekly to establish the correct watering interval. Thereafter, water batteries according to the established interval. During periods of heavy use, add additional watering as required.

Single-Point Watering System Maintenance

1. For vehicles newly equipped with the Single-Point Watering System, the initial electrolyte level check on all battery cells verifies that all the valves in the SPWS are functioning correctly. **See Periodic Service Schedule on page 31.** If a valve fails to open, the cell will eventually dry out. The initial one-time inspection of all cells will identify any occurrence of a valve that fails to open. If a valve fails to close, it will become evident due to the cell overflowing during routine watering. Either failure scenario is rare, but should be monitored in the initial inspection and during routine watering sessions. Replace malfunctioning valves to ensure maximum battery life. **See following CAUTION.**

CAUTION

- **After checking the electrolyte, fully tighten the battery caps to prevent electrolyte leakage.**

2. After the initial six-week inspection, manually check the electrolyte level at least once per year, particularly after long-term storage or any other period of vehicle inactivity. **See preceding CAUTION.**

BATTERY CHARGER

⚠ DANGER

- **The charging area must be ventilated. Hydrogen level in the air must never exceed 2%. The total volume of air in the charging area must be changed five times per hour. Exhaust fans should be located at the highest point of the roof. Contact a local HVAC engineer.**
- **Do not charge the vehicle batteries with the vehicle covered or enclosed. Any enclosure or cover should be removed or unzipped and pulled back when batteries are being charged. An accumulation of hydrogen gas could result in an explosion.**

⚠ WARNING

- **Only trained technicians should repair or service the charger. Contact a Club Car distributor/dealer.**
- **Each charger should have its own dedicated 15 or 20 ampere separately protected (circuit breaker or fuse) single phase branch circuit, in accordance with all applicable electrical codes for the location.**
- **Be sure wire connections at the receptacle and fuse link are clean and tight.**
- **Have worn, cut, or damaged power cords or wires replaced immediately.**
- **Do not expose to rain or any liquid. Keep the charger dry.**
- **Do not use near fuels, grain dust, solvents, thinners, or other flammables. Chargers can ignite flammable materials and vapors.**
- **Connect the charger AC supply cord to a properly grounded, three-wire outlet of the proper voltage and frequency as shown on the charger.**
- **Do not use an adapter to plug the charger with a three-prong plug into a two-prong outlet. Improper connection of the equipment-grounding conductor can result in a fire or an electrical shock.**
- **An extension cord or electrical outlet must accept a three-prong plug. Extension cord should be a three-wire No. 12 AWG (American Wire Gauge) or no. 14 (British Standard Wire Gauge), and be as short as possible (no more than 12 feet (3.7 m)). The use of improper extension cord could result in fire or an electrical shock.**
- **Do not operate the charger if it has received a sharp blow, was dropped, or otherwise damaged in any way.**
- **Do not push objects of any kind into the charger through cabinet slots. They may touch dangerous voltage points or cause an electrical short circuit that could result in fire or electrical shock.**
- **Do not use a charger if:**
  - **The plug is too loose or does not make a good connection.**
  - **The plug and receptacle feel hotter than normal during charge.**
  - **The plug pins or contacts are bent or corroded.**
  - **The plug, receptacle or cords are cut, worn, have any exposed wires, or are damaged in any way.**

WARNING CONTINUED ON NEXT PAGE

⚠ WARNING

- **Using a charger with any of the above symptoms could result in fire, property damage, personal injury, or death.**
- **Do not block or cover the charger ventilation slots. The slots provide ventilation and prevent the charger from overheating.**
- **Do not allow clothing, blankets, or other material to cover the charger.**
- **Do not allow the charger to operate for more than 30 minutes at 19 or more amperes.**
- **Install surge arrestors on incoming AC power lines. Surge arrestors will help protect electrical components in the charger and on the vehicle from all but direct or close lightning strikes.**

NOTE: *Because the vehicle's onboard computer (OBC) has a storage charge feature that automatically checks and recharges the batteries as necessary every 15 days, the charger can remain plugged to a vehicle throughout the storage period.*

At one hour and at two hours into the charge cycle, the charger will shut off in order to run a self-diagnostic program (ammeter will drop to zero). Charging will resume in a few moments (ammeter returns to previous rate of charge).

Each electric vehicle is supplied with a fully automatic onboard charger as standard equipment. The AC cord from the charger should be connected to a source capable of supplying 15 amperes minimum per charger.

To reduce the risk of electric shock, the battery charger must be grounded. The charger is equipped with an AC electric cord having an equipment-grounding conductor and a grounding type plug. The AC plug must be connected to an appropriate receptacle that is properly installed and grounded in accordance with the National Electrical Code and all local codes and ordinances. See the owner's manual supplied with the charger for specific operating instructions before using the charger.

The use of an extension cord with the charger should be avoided. If an extension cord must be used, use a three-conductor no. 12 AWG (American Wire Gauge) or no. 14 SWG (British Standard Wire Gauge), heavy-duty cord with ground, properly wired and in good electrical condition. Keep it as short as possible (no more than 12 feet (3.7 m)). Place all cords so they will not be stepped on, tripped over, or otherwise subject to damage or stress.

Ensure that the charger ventilation slots are unobstructed and that there is adequate ventilation.

⚠ WARNING

- **Vehicles with a charger receptacle: Never modify wiring to bypass the gray sense lead fuse .**

CHARGING BATTERIES

NOTE: *When temperatures fall below 65 °F (18.3 °C), batteries charged in unheated areas should be placed on charge as soon as possible after use. Batteries are warmest immediately after use, while cold batteries require more time to fully charge.*

- Insert the onboard charger AC plug into a dedicated AC receptacle that is properly grounded and wired in accordance with the National Electric Code and all local codes and ordinances. The charger will turn on two to ten seconds later.

The battery charger interacts with the vehicle onboard computer. The computer records the amount of energy consumed during vehicle use. While the charger is plugged in, the vehicle's control circuit is locked out, preventing operation of the vehicle, as well as the possibility of subsequent damage to the charger and vehicle.

Once the lockout is actuated, the charger turns on. The onboard computer then records the amount of energy being returned to the batteries. When the optimum amount of energy needed to replenish the batteries is returned, the charger will turn off. The control circuit lockout remains activated until the charger plug is disconnected from the vehicle.

As long as the charger is allowed to shut off by itself, the batteries will be fully charged. Overcharging and undercharging will normally be prevented.

Batteries should be put on charge even if they have been used for only a short time, i.e., 10 minutes. The charger is automatic and will turn off when batteries are fully charged. If the charger does not seem to be operating properly, or if the batteries seem weak, contact a local Club Car distributor/dealer.

SINGLE POINT WATERING SYSTEM (SPWS)

The following procedures outline the use Club Car's approved in-line deionizer system.

⚠ WARNING

- **When replacing batteries in the Single Point Watering System, place the battery cap from the new replacement battery onto the used battery being removed from the car. Important safety warnings on the battery cap must remain with the battery after it has been removed from the car.**

CAUTION

- **Water the batteries only AFTER charging.**
- **Use only the water deionizer equipment (CC P/N AM1240701) to water batteries with the SPWS.**

WATERING BATTERIES WITH THE SPWS

Checking the Water Flow Rate

1. Connect the 10 foot water hose from the deionizer with the built-in screen filter (2) to the water faucet (1) **(Figure 15)**. **See following CAUTION.**

CAUTION

- **Make sure the screen filter is clean.**
- **Do not use a longer supply hose than provided with the deionizer system (20 feet), as a decrease in water pressure could overfill the batteries and damage the refill system.**

2. Before screwing the hose-end assembly (3) onto the deionizer water hose, check the screen filter (4) inside the end of the assembly to make sure it is clean **(Figure 15)**.
3. Connect the purger (5) to the female coupler (8) on the end of the hose-end assembly **(Figure 16)**.

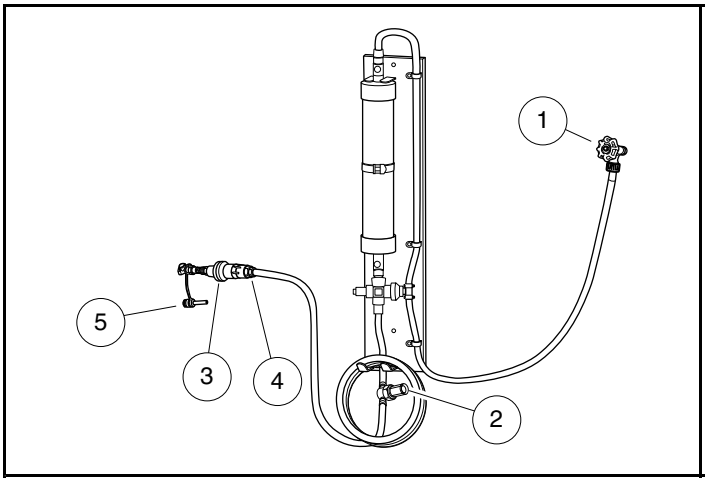

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Figure 15 Connecting Hose with Filter to Water Source

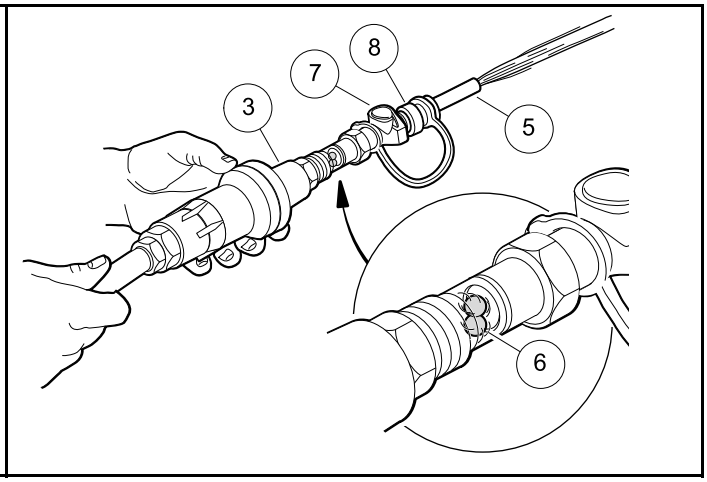

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Figure 16 Checking the Water Flow Rate

4. Completely open the water faucet until the water flows out of the regulator (3), and note the movement of the red flow indicator balls (6). **See following NOTE.**

NOTE: *The water flow rate must be at least two gallons-per-minute for the SPWS to function properly. This step also eliminates any trapped air from the water hose.*

5. Check the water quality light on the deionizer to make sure the light is green in color, indicating acceptable water quality. If the light indicates unacceptable water quality, the cartridge must be replaced.
6. After ensuring adequate water flow rate, press the grey button (7) on the end of the female coupler (8) to disconnect the purger from the regulator.

Refilling the Batteries

1. Locate the battery fill coupling (9) on the driver side of the battery compartment, remove the dust cover (10) from the male connector **(Figure 17)**, and connect the regulator (3) **(Figure 18)**. The water flow will begin immediately.

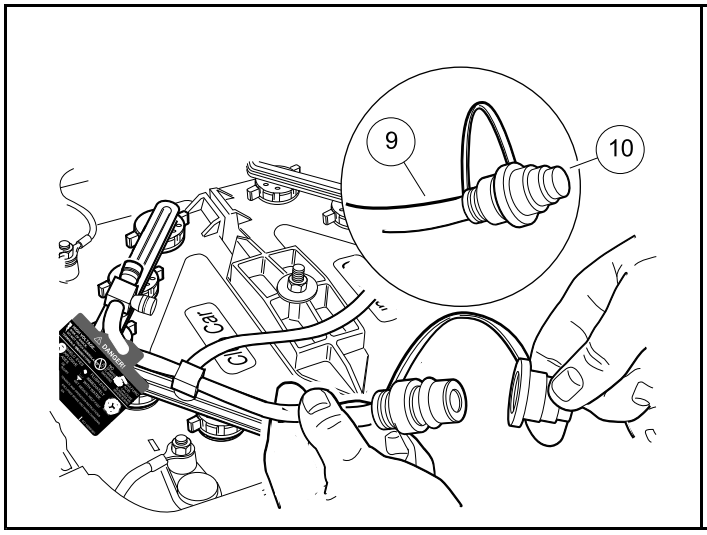

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Figure 17 Dust Cap

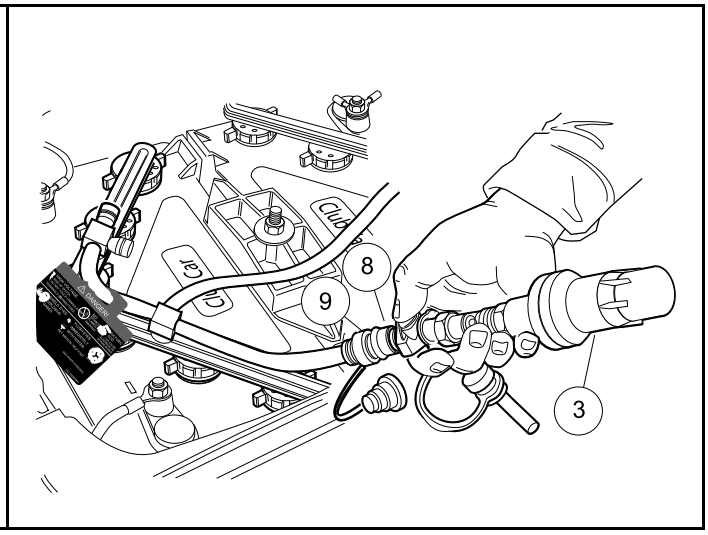

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Figure 18 Connecting Hose-end Assembly to Battery Fill Connector

2. The red flow indicator balls should swirl, indicating that the batteries are being filled. **See following CAUTION.**

CAUTION

- **If at any time water overflows from the batteries, immediately stop the refill process, disconnect the pressure regulator from the battery fill coupling, and call for service.**

3. When the red flow indicator balls stop moving, immediately press the grey button to disconnect the regulator from the battery fill coupling (9), and squeeze the dust cover (10) to lightly secure it to the male connector of the battery fill coupling **(Figure 17)**.
4. Place the battery fill coupling into the space between the battery bucket and the car body. Leaving the fill coupling on top of the battery bank or tucked between the batteries and the battery bucket can result in coupling damage.
5. Turn the water faucet off when finished filling the vehicle(s).

CLEANING THE VEHICLE

The Villager Low Speed Vehicle is equipped with an ABS front body and an ArmorFlex® rear body. Use only commercially available automotive cleaners with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate. To remove oxidation or discoloration from aluminum, use a commercially available aluminum cleaner paste and fine grade (No. 00) steel wool.

Club Car does not recommend any type of pressure washer or steam cleaning. Such a process will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.

Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains.

The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains or scratches, blemishes, or other body damage, see the Maintenance and Service Manual.

NOTE: *Dispose of waste water properly.*

ACCESSORIES

There is a complete line of accessory equipment available from Club Car and our dealers/distributors. You can obtain the name and phone number of your closest Club Car contact by visiting our web site at www.clubcar.com and clicking the "*Dealer Locator*" link.

Care should be taken that these accessories are properly installed by trained technicians, and they are used in the manner for which they were designed. **See following WARNING.**

⚠ WARNING

- **Custom cab assemblies, weatherproof enclosures, door kits, and tinted windshields will not protect occupants from flying objects.**
- **Modifications to the vehicle must not compromise compliance with state or federal regulations.**

SUBSEQUENT OWNER REGISTRATION

In the event an LSV vehicle is bought as a used vehicle, we strongly urge the new owner to register the vehicle with Club Car. This will enable us to contact you if the need arises. Please send your name, address, and serial number(s) of the vehicle(s) to Club Car, LLC., P.O. Box 204658, Augusta, Georgia 30917-4658, Attention: Vehicle Registration.

VEHICLE SPECIFICATIONS

SPECIFICATIONS	VILLAGER 2+2	VILLAGER 2
POWER SOURCE		
Drive motor: Direct drive, 48 volts DC, shunt-wound, 5.0 hp	•	•
Transaxle: Double reduction helical gear with 10.3:1 direct drive axle	•	•
Electrical system: 48 volts DC, reduced speed reverse	•	•
Batteries: High capacity, deep cycle	•	•
Charger: Automatic, computer-controlled 48-volt DC, 17 amp; UL and CSA listed	•	•
STEERING/SUSPENSION/BRAKES		
Steering: Self-adjusting rack and pinion	•	•
Front Suspension: Front mono-leaf spring with dual hydraulic shocks	•	•
Rear Suspension: Leaf spring with dual hydraulic shocks	•	•
Brakes: Mechanical brake cable system to manually adjusted drum brakes on all four wheels. Park brake is released when brake pedal is pressed	•	•
BODY/CHASSIS		
Frame/chassis: Twin I-Beam welded aluminum	•	•
Rear body: Armor Flex ArmorFlex®	•	•
Front body: ABS	•	•
Front body finish: Automotive-grade paint	•	•
Tires: Standard: DOT rated, 215/60 R8	•	•
Alloy Option: DOT rated, 205/50 R10 Radial	•	•
DIMENSIONS/WEIGHT		
Overall length:	101 in. (254 cm)	91.5 in. (232 cm)
Overall length with Bed Box		101 in. (254 cm)
Overall width	47.3 in. (120 cm)	47.3 in. (120 cm)
Overall height: (with canopy)	68.5 in. (174 cm)	68.5 in. (174 cm)
Overall height: (at steering wheel)	48 in. (122 cm)	48 in. (122 cm)
Wheelbase	65.5 in. (166 cm)	65.5 in. (166 cm)
Ground clearance	4.5 in (11 cm)	4.5 in (11 cm)
Front wheel tread	34.5 in. (88 cm)	34.5 in. (88 cm)
Rear wheel tread	38.5 in. (98 cm)	38.5 in. (98 cm)
Weight: (vehicle with canopy and batteries)	1129 lb. (512 kg)	1069 lb. (486 kg)
Vehicle rated Capacity: (level surface only)	800 lb. (363 kg)	550 lb. (250 kg)
Weight: GVWR	1930 lb. (875 kg)	1619 lb. (735 kg)
Forward speed: Standard maximum	25 mph (40 km/h)	25 mph (40 km/h)
Outside clearance circle (diameter)	17 ft.-6 in. (533 cm)	17 ft.-6 in. (533 cm)

SPECIFICATIONS	VILLAGER 2+2	VILLAGER 2
Turning radius per SAE J 695	68 in. (173 cm)	68 in. (173 cm)
Intersecting aisle clearance radius	77 in. (196 cm)	77 in. (196 cm)
Floorboard height	11.8 in. (30 cm)	11.8 in. (30 cm)
Seat height	29.5 in. (75 cm)	29.5 in. (75 cm)
BED BOX		
Overall Length		31.4 in (80 cm).
Width		37.9 in (96 cm)
Height		9.3 in (24 cm)
STANDARD SEATING CAPACITY	4	2
LIQUID CAPACITIES		
Transaxle	22 oz. (0.67 liters)	22 oz. (0.67 liters)
TIRE PRESSURE		
Standard : Front and rear – 215/60 R8 with 8x7 steel rims	35 psi (241 kPA)	35 psi (241 kPA)
Alloy Option: Front and rear – 205/50 R10 with 10x6 Alloy rims	30 psi (207 kPA)	30 psi (207 kPA)

WARRANTIES

CLUB CAR® LIMITED WARRANTY FOR CARRYALL & VILLAGER LOW SPEED VEHICLES (LSV)

1. **WARRANTY:**

   CLUB CAR, LLC, (“CLUB CAR”) hereby warrants to the Original Retail Purchaser that its new Model Carryall & Villager LSV purchased from CLUB CAR or an authorized Dealer (the “Vehicle”) shall be free from defects in material and workmanship under normal use and service for the periods stated below, subject to the provisions, limitations and exclusions contained in this non-transferable limited warranty.

   LIMITED TWO YEAR / 2000 HOUR WARRANTY: The electric motor, transaxle assembly (electric vehicle), main frame assembly, box bed hydraulic dump kit, Cab assembly and doors of the Vehicle are warranted with respect to parts and labor against defects in material and workmanship for a period of two years or 2000 hours of operation, whichever first occurs, from the documented date of purchase by the Original Retail Purchaser.

   LIMITED ONE YEAR / 1000 HOUR WARRANTY: All remaining components of the Vehicle not specified otherwise and all other original equipment options and accessories supplied by CLUB CAR or its authorized distribution channel are warranted with respect to parts and labor against defects in material and workmanship for a period of one year or 1000 hours of operation, whichever first occurs, from the documented date of purchase by the Original Retail Purchaser.

   This limited warranty covers material, workmanship and repair labor cost as to those items specifically listed above for the periods specified determined by customer use application. Such repair labor shall be performed only by CLUB CAR, its authorized dealers, or a service agency approved by CLUB CAR.

   IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO CLUB CAR AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

2. **LIMITED WARRANTY EXCLUSIONS:**

   THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:.

   A. Abuse or neglect such as overcharging, undercharging, improper battery fluid levels, loose wiring, or rusted or corroded hardware;

   B. Lack of proper maintenance as outlined in the LSV vehicle owner’s manual;

   C. Damages caused by improper installation of a component;

   D. Vehicles charged by systems other than the CLUB CAR Charger;

   E. Neglect, breakage, freezing, fire, explosion, wreckage, the addition of any chemical, or the operation of the battery in an uncharged condition (below half charge - 1,200 specific gravity);

   F. Semiconductor parts such as diodes and fuses which are vulnerable to electrical overloads (including lightning) beyond the control of CLUB CAR.

   Excluded from any CLUB CAR warranty are all fuses, filters, decals (except safety decals), light bulbs, lubricants, trim pieces, seats, routine wear items such as the charger plug and receptacle, brake shoes, belts, brushes, bushings, mats and pads, maintenance adjustments, cosmetic deterioration, and items which deteriorate or fail due to exposure or ordinary wear and tear. Batteries, battery charger, onboard computer, and solid-state speed controller are covered under separate CLUB CAR warranties. Also excluded from any CLUB CAR warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect.

   Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that the original Club Car components are suitable for use in any application other than its products. As in the use of any electrical device, a prudent owner will read and study the charger owner’s manual, the electric vehicle owner’s manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around electrical devices.

   Transportation expenses for warranty services are also excluded from this warranty.

3. **VOIDING OF WARRANTY:**

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE INVOLVED SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

4. **SOLE REMEDY:**

   CLUB Car's liability under this limited warranty, or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the repair or replacement, at CLUB Car's option, of the vehicle or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new vehicle or factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. If CLUB CAR elects to repair the vehicle, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

5. **HOW TO MAKE A WARRANTY CLAIM:**

   To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized CLUB CAR LSV Dealer. Please contact a Club Car Warranty Department Representative at 800-227-0739 to locate the nearest authorized CLUB CAR LSV Dealer in your area.

6. **DISCLAIMER:**

   THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

   In the event that another pre-printed warranty document and/or certificate offered by or through Club Car at the time of sale of this vehicle (each an "Additional Warranty Document") is deemed to conflict with the limitations or exclusions contained herein, the limitations and exclusions contained herein shall continue to apply with respect to both this limited warranty statement and, to the maximum extent permitted by law, to each Additional Warranty Document.

7. **NO CONSEQUENTIAL DAMAGES:**

   IN NO EVENT SHALL CLUB CAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE VEHICLE, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.

   Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

   This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

8. **INFORMATION:**

   For further information contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 706-863-3000.

9. **WARNING:**

   Any modification or alteration of any vehicle beyond factory specifications, including those that affect the weight distribution, stability, or speed of the vehicle, can cause serious personal injury or death.

CLUB CAR® LIMITED FOUR YEAR WARRANTY FOR LOW-SPEED VEHICLE (LSV) BATTERIES

CLUB CAR, LLC, (“CLUB CAR”) hereby warrants to the original retail purchaser that the new batteries installed in its new electric utility vehicle purchased from CLUB CAR or an authorized distributor or dealer will be free from defects in material and workmanship.

This limited warranty only covers defects in material and workmanship for a period of four years or prescribed energy units from date of purchase. The terms of this limited four year warranty shall be as follows:

Free replacement with respect to parts and labor for such battery as set forth below, subject to the terms and conditions contained herein.

BATTERY CONFIGURATION

6 VOLT STANDARD-DUTY DEEP-CYCLE BATTERIES- within 4 years or 18,000 energy units, whichever first occurs, from date of purchase.
6 VOLT HEAVY-DUTY DEEP-CYCLE BATTERIES- within 4 years or 20,000 energy units, whichever first occurs, from date of purchase.
8 VOLT STANDARD-DUTY DEEP-CYCLE BATTERIES- within 4 years or 16,000 energy units, whichever first occurs, from date of purchase.

The battery should be returned to an authorized CLUB CAR distributor or dealer with evidence of proof of purchase date. CLUB CAR reserves the right to test and recharge any battery returned for adjustment.

LIMITED WARRANTY EXCLUSIONS

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:

1. Abuse such as overcharging, undercharging, improper fluid levels, loose wiring, or rusted or corroded hardware;
2. Lack of proper maintenance as outlined in the electric vehicle owner’s manual;
3. Damages caused by improper installation of the battery;
4. Neglect, breakage, freezing, fire, explosion, wreckage, the addition of any chemical, or the operation of the battery in an uncharged condition (below half charge - 1,200 specific gravity);
5. A battery damaged by a defective charger.

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that its battery is suitable for use in any application other than in its products. As in the use of any battery, a prudent owner will read and study the charger owner’s manual, the electric vehicle owner’s manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around batteries.

Transportation expenses for warranty services are also excluded from this warranty.

WARRANTY LIMITATIONS

CLUB CAR’s liability under this limited warranty shall be to replace a defective battery. Replacement shall be furnishing a new or used battery with sufficient life to complete the remainder of the warranty term, which is identical or reasonably equivalent to the warranted product at no cost to the purchaser during the four years or prescribed energy units warranty period, whichever first occurs. All batteries, which are replaced under this limited warranty, become the property of CLUB CAR.

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

This battery is intended to be used by persons with training and experience with batteries and only in CLUB CAR electric vehicles. Any other use renders the Limited Warranties expressed herein and all implied warranties null and void and same are hereby excluded.

ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

Damage not resulting from a defect in material or workmanship or that occurs due to abuse or neglect (including failure to provide reasonable and necessary maintenance), accident or alteration is excluded from this limited warranty.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from states to states.

For further information contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia, 30917-4658, U.S.A., 706-863-3000.

CLUB CAR® LIMITED FOUR YEAR WARRANTY FOR ONBOARD COMPUTERS AND SOLID STATE SPEED CONTROLLERS FOR LOW SPEED VEHICLES

CLUB CAR, LLC (“CLUB CAR”) hereby warrants to the original retail purchaser that the new Onboard Computer and the Solid State Speed Controller, hereinafter called “Computer” and “Controller” respectively, installed in its new Low Speed Vehicles equipped with the PowerDrive® system purchased from CLUB CAR or an authorized distributor or dealer will be free from defects in material and workmanship for a period of four years from the date of purchase subject to the terms and conditions contained herein.

This limited warranty only covers defects in material and workmanship for a period of four years or 16,000 energy units, as recorded by the Computer, from date of purchase.

The terms of this four-year limited warranty shall be as follows:

Vehicles used for commercial purposes, free replacement with respect to parts and labor within four years or 16,000 energy units, whichever first occurs, from date of purchase.

The Computer or Controller should be returned to an authorized CLUB CAR distributor or dealer with evidence of proof of purchase date and the EU’s used as shown by the computer. CLUB CAR reserves the right to test any Computer returned for warranty and to verify EU’s used by accessing information contained in the Computer.

LIMITED WARRANTY EXCLUSIONS

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:

1) Abuse or neglect, such as improper battery fluid levels, loose wiring, or rusted or corroded hardware;

2) Lack of proper maintenance as outlined in the electric vehicle owner’s manual;

3) Damages caused by improper installation of the Computer or Controller;

4) Vehicles charged by systems other than the recommended CLUB CAR Charger.

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that the Computer or Controller is suitable for use in any application other than its recommended CLUB CAR products. As in the use of any battery operated device, a prudent owner will read and study the charger owner’s manual, the electric vehicle owner’s manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around batteries.

Transportation expenses for warranty services are also excluded from this warranty.

WARRANTY LIMITATIONS:

CLUB CAR’s liability under this limited warranty shall be to replace a defective Computer or Controller. Replacement shall be furnishing a new or reconditioned Computer or Controller that is identical or reasonably equivalent to the warranted product at no cost to the purchaser during the four-year limited warranty period for commercial use or 4 years or 16,000 energy units, whichever occurs first, except for transportation expenses. All parts and components replaced under this limited warranty become the property of CLUB CAR.

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

This computer or controller is intended to be used only in CLUB CAR PowerDrive System electric vehicles. Any other use renders the Limited Warranties expressed herein and all implied warranties null and void and same are hereby excluded.

ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

Damage not resulting from a defect in material or workmanship or that occurs due to abuse or neglect (including failure to provide reasonable and necessary maintenance), accident or alteration is excluded from this limited warranty.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. For further information contact WARRANTY SERVICES, CLUB CAR, LLC, P.O. Box 204658, Augusta, Georgia, 30917-4658, U.S.A., 706-863-3000.

Club Car®

NOTES

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